

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|-----------|--------------|--------------|---|---------------|---|
| A | Certified Copy of U.S. Patent 9,745,551 | 8/29/2017 | AIRM00290341 | AIRM00290411 | Pl. Ex. 003 Def. Ex. 063 Lu Ex. 15 | H | |
| B | Subpoena to testify at a deposition to Susie S. Cheng | 3/14/2019 | | | Pl. Ex. 001 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| C | Subpoena to produce documents, information, or objects or to permit inspection of premises in a civil action to Susie S. Cheng | 3/14/2019 | | | Pl. Ex. 002 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| D | S. Cheng LinkedIn | | | | Pl. Ex. 004 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay; inconsistent with Plaintiffs' Motion in Limine re priv. log. |
| E | E-mail from D. Jerez to S. Cheng re Imstem Inc | 4/10/2013 | LE000001 | LE000003 | Pl. Ex. 008 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay; inconsistent with Plaintiffs' Motion in Limine re priv log. |
| F | U.S. Patent Publication No. U.S. 2012/0027731 | 2/2/2012 | | | Pl. Ex. 010 | IO | |
| G | E-mail from R. Guido to X. Wang, copying S. Cheng and A. Clemena, re New PCT International No.: PCT/US13/48291; Our Ref. No.: 10143/003338-WOO attaching application as filed and filing receipt | 6/27/2013 | LE000021 | LE000167 | Pl. Ex. 013 | H, LA, LF, LK | |
| H | 551 PCT as Filed | 6/27/2013 | LE000022 | LE000167 | Pl. Ex. 013 [Excerpted] | H, LA, LF, LK | |
| I | E-mail from X. Fan to S. Cheng re Cost estimates for entering China for two PCT applications with cost estimates and Power of Attorney attached | 12/2/2014 | LE001242 | LE001246 | Pl. Ex. 014 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay; inconsistent with Plaintiffs' Motion in Limine re priv. log. |

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|-----------------|---|------------|----------------|----------------|--|------------|---|
| J | E-mail from L. Tin to R. Guido, copying S. Cheng, re Hong Kong Standard Patent Application - Your Ref.: 10143/003338-HKO - Our Ref.: 155510US01-HK with filing receipt attached | 10/16/2015 | LE002404 | LE002406 | Pl. Ex. 015 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay; inconsistent with Plaintiffs' Motion in Limine re priv. log. |
| K | E-mail from R. Guido to S. Cheng re National Entry Estimates for PCT/US13/50077 and PCT/US13/48291 | 11/20/2014 | LE001239 | LE001241 | Pl. Ex. 016 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay; inconsistent with Plaintiffs' Motion in Limine re priv. log. |
| L | E-mail from J. Lu to X. Wang, Copying E. Kimbrel and R. Xu re Collaboration | 7/26/2010 | LE004277 | LE004279 | Pl. Ex. 017 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); inconsistent with Plaintiffs' Motion in Limine re priv. log. |
| M | E-mail from X. Wang to S. Cheng re Collaboration | 6/21/2013 | IMSTEM-0028061 | IMSTEM-0028062 | Pl. Ex. 018 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Privilege; For reasons stated in Defendants' Motion in Limine; Inconsistent with Plaintiffs' Motion in Limine re privilege log. |
| N | E-mail from E. Kimbrel to X. Wang re Hi | 7/29/2010 | LE004280 | LE004281 | Pl. Ex. 019 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); inconsistent with Plaintiffs' Motion in Limine re priv. log. |
| O | Privilege log for documents redacted or withheld from Leason Ellis in response to Subpoena to S. Cheng | 6/7/2019 | | | Pl. Ex. 020 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Privileged; Hearsay. |
| P | International Patent Publication No. WO 2013/082543 A1 | 6/6/2013 | AIRM00294150 | AIRM00294299 | Pl. Ex. 021 Def. Ex. 72 [Different Bates] | IO | |
| Q | E-mail from X. Wang to S. Cheng re Revised Draft Response 10143/003338-US1 attaching Declaration signed by R. Xu | 1/13/2017 | LE005882 | LE005884 | Pl. Ex. 022 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); inconsistent with Plaintiffs' Motion in Limine re priv. log. |

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|-----------------|---|------------|----------------|----------------|--------------------|---------------|--|
| R | Markups to reflect Examiner's changes to '551 patent claims | | | | Pl. Ex. 023 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Authentication (FRE 901). |
| S | Plaintiffs' Amended Notice of Deposition of Xiaofang Wang | 6/11/2019 | | | Pl. Ex. 026 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) |
| T | Plaintiffs' Notice of Deposition to Defendant ImStem Biotechnology, Inc. pursuant to Fed. R. Civ. P. 30(b)(6) | 2/6/2019 | | | Pl. Ex. 027 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) |
| U | E-mail from X. Wang to A. Lazorchak re Biosketch_XiaofangWang attaching X. Wang Biographical Sketch | 12/16/2013 | IMSTEM-0022291 | IMSTEM-0022294 | Pl. Ex. 028 | H, LA, LF, LK | |
| V | Defendants Xiaofang Wang and ImStem's Responses to Astellas's First set of Interrogatories (1-21) | 3/6/2019 | | | Pl. Ex. 029 | | Hearsay. |
| W | E-mail from X. Wang to R. Xu re Slides attaching native presentation High Efficiency Differentiation of T cells from human embryonic stem cells | 2/18/2011 | IMSTEM-0008154 | IMSTEM-0008155 | Pl. Ex. 031 | H | |
| X | Presentation High Efficiency differentiation of HSC and MSC from Human Embryonic stem cells feeder free and serum free system | 4/5/2011 | IMSTEM-0011499 | IMSTEM-0011499 | Pl. Ex. 032 | I | |
| Y | E-mail from R. Xu to G. Gallo, copying X. Wang, re License Back Request attaching UConn License Back Request | 4/12/2013 | IMSTEM-0005543 | IMSTEM-0005559 | Pl. Ex. 034 | H, LA, LF, LK | |
| Z | E-mail from X. Wang to M. Men, R. Xu, and X. Pan re Patent#1 with attachments | 7/3/2012 | IMSTEM-0031515 | IMSTEM-0031532 | Pl. Ex. 036 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); For reasons stated in Defendants' Motion in Limine re '551 patent. |
| AA | E-mail from X. Wang to R. Xu, copying M. Men, re more claims added attaching updated abstract and claims | 7/9/2012 | IMSTEM-0027835 | IMSTEM-0027843 | Pl. Ex. 037 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |

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|-----------------|--|-----------|--|--|----------------|-------------------|--|
| AB | UConn License Back Agreement | 4/16/2013 | IMSTEM-0019672 | IMSTEM-0019675 | Pl. Ex. 039 | H, LA, LF, LK, IO | |
| AC | E-mail from X. Chang to X. Wang attaching Excel file MSC EAE | 12/7/2010 | IMSTEM-0002267 | IMSTEM-0002268 | Pl. Ex. 043 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| AD | E-mail from X. Wang to R. Xu with Grant Proposal attached | 12/1/2010 | IMSTEM-0007426 | IMSTEM-0007427 | Pl. Ex. 044 | H, LA, LF, LK | |
| AE | E-mail from X. Wang to R. Xu re CDMRP eReceipt: You have been added as the Alternate Submitter on application MS 110290 and attachment | 7/21/2011 | IMSTEM-0008409 | IMSTEM-0008412 | Pl. Ex. 045 | | Relevance (FRE 401-402). |
| AF | Annual Technical Progress Report for Stem Cell Research Grants | 9/30/2012 | IMSTEM-0020473 | IMSTEM-0020481 | Pl. Ex. 046 | H, LA, LF, LK | |
| AG | E-mail from R. Xu to S. Bing copying X. Wang re NIH R21 Critiques with attachment | 9/14/2011 | IMSTEM-0004322 | IMSTEM-0004334 | Pl. Ex. 047 | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay, |
| AH | E-mail from X. Wang to R. Xu re New Business Plan for TIP attaching July 2012 Business Plan | 7/6/2012 | IMSTEM-0040373 | IMSTEM-0040388 | Pl. Ex. 048 | H, I, LA, LF, LK | |
| AI | Regenerative Medicine Research Fund Scientific Research Progress Report | 8/30/2016 | IMSTEM-0021598 | IMSTEM-0021625 | Pl. Ex. 049 | H, LA | |
| AJ | E-mail from X. Wang to Dr. Ohno, copying M. Men and A. Lazorchak re NewYork Youngstartup Venture Follow Up attaching Executive summary and presentations | 4/3/2014 | IMSTEM-0023976 | IMSTEM-0024009 | Pl. Ex. 050 | H, I, LA | |
| AK | E-mail from X. Wang to R. Xu re MsPlan with presentation and translations attached | 9/7/2011 | IMSTEM-0008577 AIRM00296707 AIRM00296714 | IMSTEM-0008578 AIRM00296707 AIRM00296740 | Pl. Ex. 051 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); For reasons stated in Defendant's Motion in Limine re China. |
| AL | E-mail from A. Lazorchak to X. Wang re This is good comment | 6/6/2014 | IMSTEM-0026597 | IMSTEM-0026597 | Pl. Ex. 052 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Incomplete Document (FRE 106). |
| AM | Plaintiffs' Second Amended Notice of Deposition of Michael Men | 7/1/2019 | | | Pl. Ex. 053 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) |

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|-----------------|---|-----------|----------------|----------------|--|---------------|--|
| AN | E-mail from R. Xu to X. Wang and M. Men re 1st Clinical Trial on hESC progeny attaching embryonic stem cell trials for macular degeneration: a preliminary reproto (Schwartz) | 2/13/2012 | IMSTEM-0004930 | IMSTEM-0004938 | Pl. Ex. 055 | | Relevance (FRE 401-402). |
| AO | E-mail from X. Wang to S. Cheng and M. Men, copying R. Xu, re ip [REDACTED BY HAND DURING DEPOSITION] | 6/15/2012 | IMSTEM-0027863 | IMSTEM-0027863 | Pl. Ex. 057 Pl. Ex. 5 (ex. 5 was unredacted version used during Cheng depo) | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Privilege; For reasons stated in Defendants' Motion in Limine re '551 patent. |
| AP | E-mail from M. Men to X. Wang, R. Xu, and X. Pan re provisional filing | 7/3/2012 | IMSTEM-0027845 | IMSTEM-0027845 | Pl. Ex. 058 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); For reasons stated in Defendants' Motion in Limine re '551 patent. |
| AQ | E-mail from M. Men to D. Men and C. Men re Patent#1 | 7/8/2012 | IMSTEM-0031497 | IMSTEM-0031497 | Pl. Ex. 059 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); For reasons stated in Defendants' Motion in Limine re '551 patent. |
| AR | E-mail from M. Men to D. Men and C. Men re More Claims added | 7/9/2012 | IMSTEM-0031479 | IMSTEM-0031479 | Pl. Ex. 060 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); For reasons stated in Defendants' Motion in re '551 patent. |
| AS | E-mail from X. Wang to X. Pan, M. Men, and R. Xu re Patent#1 | 7/16/2012 | IMSTEM-0031469 | IMSTEM-0031469 | Pl. Ex. 061 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); For reasons stated in Defendants' Motion in Limine re '551 patent. |
| AT | E-mail from X. Wang to M. Men re its getting worse for the cgmp group today attaching Stem Cell Revolution | 7/31/2012 | IMSTEM-0031461 | IMSTEM-0031468 | Pl. Ex. 062 | H, LA, LF, LK | |
| AU | E-mail from X. Wang to M. Men re contact | 8/18/2012 | IMSTEM-0027955 | IMSTEM-0027956 | Pl. Ex. 063 | H, LA, LF, LK | |
| AV | E-mail from R. Xu to S. Donofrio, copying J. Pachter, X. Wang, I. Bates, and R. Xu, re Disease Directed Collaboration Group Proposal attaching proposal | 1/4/2013 | IMSTEM-0018362 | IMSTEM-0018462 | Pl. Ex. 064 | H | |

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| AW | E-mail from X. Wang to R. Xu, copying M. Men, re testing iPSC-MSC in EAE | 8/5/2013 | IMSTEM-0031135 | IMSTEM-0031135 | Pl. Ex. 065 | H, LA, LF, LK | |
| AX | State of Connecticut Dept. of Public Health Connecticut Stem Cell Research Program | 10/24/2013 | IMSTEM-0020761 | IMSTEM-0020761 | Pl. Ex. 067 | H, LA, LF, LK | |
| AY | E-mail from M. Men to C. Men re Cell Stem Cell Paper attaching Cell Stem Cell Paper | 3/13/2014 | IMSTEM-0030979 | IMSTEM-0031055 | Pl. Ex. 068 | H, LA, LF, LK | |
| AZ | E-mail from X. Wang to E. Thomson, copying A. Lazorchak and M. Men, re Follow up of ImStem | 4/3/2014 | IMSTEM-0024010 | IMSTEM-0024011 | Pl. Ex. 069 | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) & Relevance (FRE 401 & 402) as to the discussion of China, for reasons stated in Defendants' MIL re China. |
| BA | ImStem Investment Agreements | 12/16/2016 | IMSTEM-0045841 | IMSTEM-0045916 | Pl. Ex. 070 | H, LA, LF, LK | |
| BB | Compilation of eight ImStem Investment Agreements (As used in M. Men Deposition) | 12/16/2016 | IMSTEM-0045841 | IMSTEM-0045916 | Pl. Ex. 070 | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) & Relevance (FRE 401 & 402) as to the redacted Chinese names, for reasons stated in Defendants' MIL re China. Defendants request that redacted copies be used, as provided to Plaintiffs with these objections. |
| BC | ImStem Biotechnology, Inc. Investment Agreement | 12/16/2016 | IMSTEM-0045841 | IMSTEM-0045849 | Pl. Ex. 070 (Excerpt) | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) & Relevance (FRE 401 & 402) as to the redacted Chinese names, for reasons stated in Defendants' MIL re China. Defendants request that redacted copies be used, as provided to Plaintiffs with these objections. |

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|-----------------|---|------------|----------------|----------------|--------------------------|------------|---|
| BD | ImStem Biotechnology, Inc. Investment Agreement | 12/16/2016 | IMSTEM-0045850 | IMSTEM-0045858 | Pl. Ex. 070 (Excerpt) | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) & Relevance (FRE 401 & 402) as to the redacted Chinese names, for reasons stated in Defendants' MIL re China. Defendants request that redacted copies be used, as provided to Plaintiffs with these objections. |
| BE | ImStem Biotechnology, Inc. Investment Agreement | 12/16/2016 | IMSTEM-0045859 | IMSTEM-0045867 | Pl. Ex. 070 (Excerpt) | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) & Relevance (FRE 401 & 402) as to the redacted Chinese names, for reasons stated in Defendants' MIL re China. Defendants request that redacted copies be used, as provided to Plaintiffs with these objections. |
| BF | ImStem Biotechnology, Inc. Investment Agreement | 12/16/2016 | IMSTEM-0045868 | IMSTEM-0045876 | Pl. Ex. 070 (Excerpt) | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) & Relevance (FRE 401 & 402) as to the redacted Chinese names, for reasons stated in Defendants' MIL re China. Defendants request that redacted copies be used, as provided to Plaintiffs with these objections. |
| BG | ImStem Biotechnology, Inc. Investment Agreement | 12/16/2016 | IMSTEM-0045877 | IMSTEM-0045885 | Pl. Ex. 070 (Excerpt) | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) & Relevance (FRE 401 & 402) as to the redacted Chinese names, for reasons stated in Defendants' MIL re China. Defendants request that redacted copies be used, as provided to Plaintiffs with these objections. |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|----------------|----------------|------------------------------|------------------|---|
| BH | ImStem Biotechnology, Inc. Investment Agreement | 12/16/2016 | IMSTEM-0045886 | IMSTEM-0045894 | Pl. Ex. 070 (Excerpt) | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) & Relevance (FRE 401 & 402) as to the redacted Chinese names, for reasons stated in Defendants' MIL re China. Defendants request that redacted copies be used, as provided to Plaintiffs with these objections. |
| BI | ImStem Biotechnology, Inc. Investment Agreement | 12/16/2016 | IMSTEM-0045895 | IMSTEM-0045906 | Pl. Ex. 070 (Excerpt) | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) & Relevance (FRE 401 & 402) as to the redacted Chinese names, for reasons stated in Defendants' MIL re China. Defendants request that redacted copies be used, as provided to Plaintiffs with these objections. |
| BJ | ImStem Biotechnology, Inc. Investment Agreement | 12/16/2016 | IMSTEM-0045907 | IMSTEM-0045916 | Pl. Ex. 070 (Excerpt) | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) & Relevance (FRE 401 & 402) as to the redacted Chinese names, for reasons stated in Defendants' MIL re China. Defendants request that redacted copies be used, as provided to Plaintiffs with these objections. |
| BK | Plaintiffs' Second Amended Notice of Deposition of Ren-He Xu | 7/1/2019 | | | Pl. Ex. 071 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| BL | E-mail from A. Feng to S. Lu re Greetings & a Request | 3/5/2010 | AIRM00232825 | AIRM00232828 | Pl. Ex. 073 | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| BM | E-mail from R. Xu to S. Lu and J. Lu re Reviews attaching publications | 4/2/2010 | AIRM00234374 | AIRM00234392 | Pl. Ex. 074 | H, LA, LF, LK, R | |
| BN | E-mail from R. Xu to X. Wang re R21 attaching R21 proposal | 2/11/2011 | IMSTEM-0001856 | IMSTEM-0001865 | Pl. Ex. 076 | H, LA, LF, LK | |
| BO | Connecticut Stem Cell Research Proposal | 11/30/2009 | IMSTEM-0045961 | IMSTEM-0046009 | Pl. Ex. 077 | H, LA, LF, LK, P | |

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|-----------------|--|------------|----------------|----------------|--------------------------|-------------------|---|
| BP | E-mail from X. Pan to R. Xu, copying X. Wang, re MSC from ESC | 6/7/2011 | IMSTEM-0003600 | IMSTEM-0003604 | Pl. Ex. 079 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| BQ | Mammalian Development article manuscript | 3/31/2010 | IMSTEM-0045250 | IMSTEM-0045292 | Pl. Ex. 085 | A, H, LA, LF, LK | |
| BR | Powerpoint presentation in primarily Chinese and minimal English | 2009 | IMSTEM-0045934 | IMSTEM-0045956 | Pl. Ex. 086 | H, LA, LF, LK, FL | |
| BS | Powerpoint presentation in primarily Chinese and minimal English | 2009 | IMSTEM-0045917 | IMSTEM-0045933 | Pl. Ex. 087 | H, LA, LF, LK, FL | |
| BT | Unredacted X. Wang Lab notebook no. 31 | 3/12/2010 | IMSTEM-0042945 | IMSTEM-0043138 | Pl. Ex. 088 | H, I, LA, LF, LK | |
| BU | Unredacted X. Wang Lab notebook no. 36 | 4/23/2012 | IMSTEM-0041825 | IMSTEM-0041904 | Pl. Ex. 089 | H, LA, LF, LK | |
| BV | Unredacted A. Lazorchak Lab Notebook | 5/17/2013 | IMSTEM-0041698 | IMSTEM-0041788 | Pl. Ex. 090 | | Relevance (FRE 401-402). |
| BW | E-mail from R. Xu to X. Li and X. Wang, copying K. Martins-Taylor, re Chapter attaching Chapter guidelines and outline | 2/2/2010 | IMSTEM-0042770 | IMSTEM-0042773 | Pl. Ex. 091 | H | |
| BX | E-mail from R. Xu to X. Wang, copying K. Martins-Taylor, re Chapter | 3/3/2010 | IMSTEM-0042541 | IMSTEM-0042541 | Pl. Ex. 092 | H, LA, LF, LK | |
| BY | E-mail from R. Xu to X. Wang re Book Chapter attaching draft book chapter | 4/27/2010 | IMSTEM-0042912 | IMSTEM-0042944 | Pl. Ex. 093 | H, LA, LF, LK | |
| BZ | E-mail from R. Xu to Y. Khan, copying X. Li and X. Wang re Revised Book Chapter attaching revised book chapter and figures | 5/7/2010 | IMSTEM-0042283 | IMSTEM-0042383 | Pl. Ex. 094 | H, LA, P | |
| CA | ImStem and X. Wang Answer and Counterclaims [Dkt. no. 20] with exhibits | 1/10/2018 | | | Pl. Ex. 095 | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) |
| CB | Redlined version of Defendants' Answer and Amended Counterclaims [Dkt. No. 71-2] | 7/22/2019 | | | Pl. Ex. 096 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) |
| CC | E-mail from R. Xu to S. Lu, E. Kimbrel, B. Su, and X. Wang re proposal submitted attaching CT proposal rx 011411 | 1/14/2011 | AIRM00014753 | AIRM00014768 | Pl. Ex. 097 Lu Ex. 11 | H, LA, LF, LK | |
| CD | E-mail from R. Xu to X. Wang re Visa | 12/30/2009 | IMSTEM-0042855 | IMSTEM-0042855 | Pl. Ex. 098 | H, LA, LF, LK, P | |

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|-----------------|--|-----------|----------------------------------|----------------------------------|---|---------------------|---|
| CE | 2013 ImStem Income Tax Return | 3/26/2014 | IMSTEM-0045409 | IMSTEM-0045458 | Pl. Ex. 099 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| CF | 2014 ImStem Income Tax Return | 8/30/2015 | IMSTEM-0045459 | IMSTEM-0045504 | Pl. Ex. 100 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| CG | 2015 ImStem Income Tax Return | 9/3/2016 | IMSTEM-0045505 | IMSTEM-0045553 | Pl. Ex. 101 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| CH | 2016 ImStem Income Tax Return | 7/26/2017 | IMSTEM-0045554 | IMSTEM-0045689 | Pl. Ex. 102 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| CI | 2017 ImStem Income Tax Return | 7/19/2018 | IMSTEM-0045690 | IMSTEM-0045831 | Pl. Ex. 103 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| CJ | Defendants' Amended Answer and Counterclaims | 8/28/2019 | | | Pl. Ex. 104 | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| CK | CT Stem Cell Research Proposal | 1/13/2012 | IMSTEM-0040110 | IMSTEM-0040141 | Pl. Ex. 105 | | Relevance (FRE 401-402). |
| CL | E-mail from E. Kimbrel to X. Wang re In Vitro Data Disclosure attaching presentation | 4/3/2012 | AIRM00050758 | AIRM00050766 | Pl. Ex. 106 | | Hearsay. |
| CM | E-mail from E. Kimbrel to X. Wang re Data and Materials and methods with attachment | 2/14/2013 | IMSTEM-0006780 IMSTEM-0006784 | IMSTEM-0006780 IMSTEM-0006787 | Pl. Ex. 107 | | Relevance (FRE 401-402). |
| CN | E-mail from R. Xu to G. Gallo, copying X. Wang, re disclosure attaching disclosure | 6/6/2012 | IMSTEM-0018163 | IMSTEM-0018178 | pl. ex. 114 | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); For reasons stated in Defendants' Motion in Limine re '551 patent. |
| CO | Binding Term Sheet (SCRMI, CHA and ACT) | 7/13/2011 | AIRM00296388 | AIRM00296403 | Pl. Ex. 115 | R, P, H, LF, LK | |
| CP | Purchase Agreement among Astellas, CHA Biotech and CHA University | 6/24/2019 | AIRM00297826 | AIRM00297897 | Pl. Ex. 116 Cassidy Ex. 08 | R, P, LF, LK, H, LA | |
| CQ | Licensing Executives Society Biotech Survey | 2016 | N/A | | Pl. Ex. 117 | R, H, LF, P, IO | |

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|-----------------|--|-----------|----------------|----------------|--|-----------------|--------------------------------|
| CR | Article: Gimble, et al. In vitro Differentiation Potential of Mesenchymal Stem Cells," Transfusion Medicine and Hemotherapy | 5/8/2008 | N/A | | Pl. Ex. 125 | R, H, IO, P | |
| CS | Article: Staszkiewicz, et al. Cell Growth Characteristics, Differentiation Frequency, and Immunophenotype of Adult Ear Mesenchymal Stem Cells. Stem Cells and Development | 4/28/2009 | N/A | | Pl. Ex. 128 | R, H, IO, P | |
| CT | Dreesen, O. & Brivanlou, A.H., Signaling Pathways in Cancer and Embryonic Stem Cells, <i>Stem Cell Reviews</i> , 3(1): 7-17 (2007) | 2007 | AIRM00298473 | AIRM00298484 | Pl. Ex. 131 | H, IO | |
| CU | U.S. Patent No. 8,431,395 | 4/30/2009 | N/A | | Pl. Ex. 133 Brivanlou Ex. 7 | R, H, IO, P | |
| CV | Article: Luis, et al. Canonical Wnt Signaling Regulates Hematopoiesis in a Dosage-Dependent Fashion. Cell Press | 10/7/2011 | N/A | | Pl. Ex. 135 | R, P, H, IO | |
| CW | Article: Perry, et al. Cooperation between both Wnt/B-catenin and PTEN/P13K/Akt signaling promotes primitive hematopoietic stem cell self-renewal and expansion. Genes & Development | 9/2/2011 | N/A | | Pl. Ex. 136 | R, P, H, IO, DU | |
| CX | U.S. Patent No. 8,263,403 | 9/11/2012 | N/A | | Pl. Ex. 137 | R, P, H, IO | |
| CY | E-mail from E. Kimbrel to X. Wang re Hi attaching publications and MSCs slide | 7/29/2010 | IMSTEM-0000969 | IMSTEM-0000985 | Brivanlou Ex. 6 | | Incomplete Document (FRE 106). |
| CZ | Article: "Human Umbilical Cord Mesenchymal Stem Cells hUC-MSCs Exert ...," Chen et al., Clinical Immunology | 3/5/2010 | AIRM00224674 | AIRM00224684 | Bunnell Ex. 127 | R, P, H, IO | |
| DA | Email from L. Jooste to M. Vincent, E. Kimbrel, R. Lanza re: Ocata - MSC Program; with attachments | 2/21/2015 | AIRM00043565 | AIRM00043609 | Cassidy Ex. 003 | R, P, LK, LF, H | |
| DB | Email from Kimbrel to BHahn@mednet.ucla.edu re ACT's hESC-MSCs for lupus | 2/5/2015 | AIRM00065317 | AIRM00065319 | Cassidy Ex. 005 | R, P, LK, LF, H | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|--------------|--------------|--------------------------|------------------|--|
| DC | Astellas Financial Statements (produced in native) | 2/28/2018 | AIRM00298227 | AIRM00298227 | Cassidy Ex. 011 | H, LA, LF, LK | |
| DD | AIRM Custom Income Statements From Jan 2015 to Feb 2018 (print of native version marked as depo exhibit) | | AIRM00298227 | AIRM00298227 | Cassidy Ex. 011 | H, LA, LF, LK | |
| DE | Chart of Time Spent on MS/EAE Strategy, Preparing cells, assays, data, for UConn Collaboration | | | | Cassidy Ex. 02 | | Authentication (FRE 901). |
| DF | J. Chu LinkedIn | | | | Chu Ex. 01 | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| DG | E-mail from E. Kimbrel to J. Chu re Protocols attaching protocols | 12/5/2011 | AIRM00049918 | AIRM00049922 | Chu Ex. 02 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| DH | Notebook No. A 172 issued to Janny Chu | 12/9/2011 | AIRM00263226 | AIRM00263375 | Chu Ex. 04 | R, P, H, LF, LK | |
| DI | E-mail from J. Chu to E. Kimbrel re Cell proliferation data attaching Board Meeting 052012 JChu ppt | 5/2/2012 | AIRM00017155 | AIRM00017159 | Chu Ex. 06 | | Hearsay. |
| DJ | E-mail from E. Kimbrel to J. Chu and N. Kouris re MSC cell surface proteome attaching publication | 8/7/2012 | AIRM00051583 | AIRM00051593 | Chu Ex. 07 | H, LA, LF, LK | |
| DK | J. Chu Notebook No. A182 | 8/15/2012 | AIRM00249942 | AIRM00250130 | Chu Ex. 08 | H, LA, LF, LK | |
| DL | E-mail from J. Chu to E. Kimbrel re CD10 and Stro-1? Attaching Patent & Board Meeting 111612 JChu | 11/20/2012 | AIRM00024457 | AIRM00024464 | Chu Ex. 09 | H, LA, LF, LK | |
| DM | E-mail from J. Chu to S. Lu re Lab meeting slides attaching slides | 12/31/2012 | AIRM00225945 | AIRM00225965 | Chu Ex. 10 | H, LA, LF, LK | |
| DN | Email from Chu to Kimbrel re data; attachment Flow data FM MSCs.pptx | 2/5/2013 | AIRM00025892 | AIRM00025895 | Chu Ex. 11 | R, P, H, LF, LK | |
| DO | E-mail from J. Chu to E. Kimbrel re Data attaching Flow A and J Excel | 2/6/2013 | AIRM00025903 | AIRM00025905 | Chu Ex. 12 | H, LA, LF, LK | |
| DP | Email from Kimbrel to Chu re data | 2/6/2013 | AIRM00053010 | AIRM00053011 | Chu Ex. 13 | R, P, H, LF, LK | |
| DQ | Email from Kouris to Kimbrel re Janny | 10/8/2013 | AIRM00034074 | AIRM00034074 | Chu Ex. 14 | R, P, LK, LF, H | |
| DR | Presentation Progress report by S. Lu | 2/5/2010 | AIRM00207881 | AIRM00207895 | Def. Ex. 066 Lu Ex. 7 | H, LA, LF, LK, I | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|-----------|--------------|--------------|---------------------|-----------------------------|---|
| DS | E-mail from S. Lu to E. Kimbrel re meeting with UConn Folks attaching protocols for BL-Revised 4-2-09 | 8/11/2010 | AIRM00013971 | AIRM00013972 | Def. Ex. 068 | | Hearsay. |
| DT | Plaintiffs' Objections and Responses to Defendants' First set of Interrogatories (1-10) | 4/4/2019 | | | Def. Ex. 069 | BE, R, H, P, LA, LF, LK, IO | Hearsay. |
| DU | International App PCT/US2013/048291 | 6/27/2013 | | | Def. Ex. 073 | | For reasons stated in Defendants' Motion in Limine re other patent. |
| DV | Email from Vincent to Lu re UConn collaborators' new company | 5/28/2013 | AIRM00093176 | AIRM00093177 | Def. Ex. 075 | R, P, H, DU, LF, LK | |
| DW | Email from sasseedog@aol.com (Fred) to Lanza re Dr. Xu | 9/25/2013 | AIRM00094808 | AIRM00094809 | Def. Ex. 076 | R, P, H, LK, LF | |
| DX | Article: "Human ESC-Derived MSCs Outperform Bone Marrow MSCs in the Treatment of an EAE Model of Multiple Sclerosis," Stem Cell Reports | 7/8/2014 | AIRM00076995 | AIRM00077010 | Def. Ex. 078 | IO, R, P, H | |
| DY | E-mail from R. Lanza to R. Xu and E. Kimbrel, copying S. Lu and X. Wang re ??!! | 3/24/2014 | AIRM00038112 | AIRM00038112 | Def. Ex. 079 | H, LA, LF, LK, P | |
| DZ | E-mail from R. Lanza to R. Xu, S. Crocker, J. Pachter, X. Wang and A. Lazorchak, copying E. Kimbrel and S. Lu re Cell Stem Cell Editorial Decision | 3/29/2014 | AIRM00038243 | AIRM00038248 | Def. Ex. 080 | H, LA, LF, LK, P | |
| EA | Email from Lanza to Knoepfler re Dr. Ren-He Xu and Dr. Xiaofang Wang/BTW | 6/9/2014 | AIRM00146897 | AIRM00146903 | Def. Ex. 081 | R, H, P, LK, LF | |
| EB | Email from Vincent to Heffernan re What rights do we have... | 6/5/2014 | AIRM00269171 | AIRM00269172 | Def. Ex. 082 | R, H, P, LK, LF | |
| EC | Email from Vincent to Heffernan re What rights do we have... | 6/5/2014 | AIRM00097117 | AIRM00097120 | Def. Ex. 083 | R, H, P, LK, LF, DU | |
| ED | Email from Lanza to Jooste re Imstem | 2/5/2016 | AIRM00131010 | AIRM00131011 | Def. Ex. 084 | R, P, LK, LF, H | |
| EE | Lab Notebook No. 174 Issued to Nick Kouris | 2/29/2012 | AIRM00250289 | AIRM00250489 | Def. Ex. 089 | R, P, H, LF, LK | |
| EF | Email from Kouris to Kouris, Kimbrel, Lanza, Lu, and Chu re UCLA | 7/26/2012 | AIRM00020601 | AIRM00020605 | Def. Ex. 090 | R, P, H, LF, LK | |
| EG | Native excel Mean Intensities | 9/26/2012 | AIRM00262767 | AIRM00262767 | Def. Ex. 091 | H, LA, LF, LK | |
| EH | Email from Kouris to Lu re CD10 | 9/28/2012 | AIRM00225905 | AIRM00225906 | Def. Ex. 092 | R, P, H, LF, LK | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|----------------|----------------|------------------------|---------------------|------------|
| EI | Abstract for Ordi, et al. CD10 expression in epithelial tissues and tumors of the gynecologic tract: a useful marker in the diagnosis of mesonephric, trophoblastic, and clear cell tumors | Feb-03 | N/A | | Def. Ex. 093 | R, H, IO, P | |
| EJ | Email from Kouris to Kimbrel re CD10; attachments | 9/28/2012 | AIRM00022881 | AIRM00022899 | Def. Ex. 094 | R, P, H, LF, LK | |
| EK | Abstract for Young, et al. Human pluripotent and progenitor cells display cell surface cluster differentiation markers CD10, CD13, CD56, and MHC class-I | May-99 | N/A | | Def. Ex. 095 | R, H, IO, P | |
| EL | Email from Lu to Kimbrel et al. re Review paper on MSC surface markers; attachment | 10/12/2012 | AIRM00023607 | AIRM00023615 | Def. Ex. 096 | R, P, H, LF, LK | |
| EM | Email from Kouris to Lu and Kimbrel re: 10.11.12 Nick's LM Presentation; attachment | 10/11/2012 | AIRM00023558 | AIRM00023576 | Def. Ex. 097 | R, P, H, LF, LK | |
| EN | E-mail from E. Kimbrel to N. Kouris re Hooke Lab - EAE | 5/28/2012 | AIRM00051261 | AIRM00051261 | Def. Ex. 098 | H, LA, LF, LK | |
| EO | Email from Lu to Kouris and Kimbrel re R20120529-1, INTERIM 7.6.12 | 7/6/2012 | AIRM00019878 | AIRM00019880 | Def. Ex. 099 | R, P, H, LF, LK | |
| EP | Email from Kimbrel to Kouris re (start of thread references FW: Report - EAE study in C57BL/6 mice (20120529-1)) | 9/26/2012 | AIRM00052211 | AIRM00052213 | Def. Ex. 100 | R, P, H, LF, LK | |
| EQ | Email from Kouris to Kimbrel re MSC team | 7/17/2012 | AIRM00020016 | AIRM00020018 | Def. Ex. 101 | R, P, H, LF, LK | |
| ER | Email from Martins-Taylor to Wang and Li re Stem cell chapter | 4/30/2010 | IMSTEM-0000702 | IMSTEM-0000739 | Fortier Ex. 011 | R, P, H, LF, LK | |
| ES | Printout of the home page of the Cornell Equine Park website (Fortier 009) | 12/4/2019 | N/A | | Fortier Ex. 09 | R, H, P, A | |
| ET | Printout of several pages of from the Cornell Equine Park website (Fortier 010) | 12/4/2019 | N/A | | Fortier Ex. 10 | R, H, P, A | |
| EU | Email from Xu to Wang re Update proposal; attached draft grant application language | 1/2/2011 | IMSTEM-0001734 | IMSTEM-0001751 | Fortier Ex. 12 | R, P, H, IO, LF, LK | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|----------------|----------------|------------------|-------------------------|------------|
| EV | E-mail from J. Lu to A. Feng, F. Li, H. Yin, E. Kimbrel, B. Chiswell, W. Wang, T. Kelley, and H. Kim re progress report, attaching progress report | 1/29/2010 | AIRM00013414 | AIRM00013429 | Lu Ex. 02 | H, LA, LF, LK | |
| EW | E-mail from S. Lu to E. Kimbrel re meeting with UConn Folks attaching protocols for BL-Revised 4-2-09 | 8/11/2010 | AIRM00013971 | AIRM00013971 | Lu Ex. 04 | | Hearsay. |
| EX | Email from Xu to Wang re: CT proposal with attached proposal | 12/29/2010 | IMSTEM-0017662 | IMSTEM-0017679 | Lu Ex. 10 | R, P, H, IO, LF, LK | |
| EY | Transcript of March 2018 Conversation between T. Shannon and J. Lu | 3/1/2018 | LU-00000003 | LU-00000090 | Lu Ex. 14 | BE, H, LA, LF, LK, P, R | |
| EZ | E-mail from J. Lu to A. Feng, F. Li, and E. Kimbrel re Pluristem attaching PTSI Pluristem Company Profile | 9/21/2009 | AIRM00013304 | AIRM00013310 | Lu Ex. 16 | | Hearsay. |
| FA | Garde, D., Astellas finally wraps up its \$379M deal for Ocata, FierceBiotech | 2/10/2016 | AIRM00299254 | AIRM00299257 | | H | |
| FB | Defendants' Amended Objections and Responses to Astellas' First Set of Interrogatories (1-21) | 10/15/2019 | | | | H | Hearsay. |
| FC | Native excel MSC_COMPARE_062112-small | 6/22/2012 | IMSTEM-0011870 | IMSTEM-0011870 | | H, LA, LF, LK | |
| FD | R. Xu and X. Wang book chapter - Stem Cells and Tissue Regeneration | 1/1/2013 | AIRM00297929 | AIRM00297958 | | P, H | |
| FE | E-mail from R. Xu to S. Lu, E. Kimbrel, B. Su, and X. Wang re proposal submitted attaching CT proposal rx 010711 | 1/7/2011 | AIRM00014702 | AIRM00014721 | | H, LA, LF, LK | |
| FF | E-mail from E. Kimbrel to R. Xu, copying J. Lu, with attachment | 1/10/2011 | AIRM00233553 | AIRM00233572 | | H, LA, LF, LK | |
| FG | File History for U.S. Patent No. 8,961,956 (U.S. Patent Appl. 13/905,526) | 5/30/2013 | AIRM00295993 | AIRM00296309 | | IO | |
| FH | E-mail from E. Kimbrel to X. Wang re next round of mice | 11/17/2012 | IMSTEM-0004568 | IMSTEM-0004569 | | H, LA, LF, LK | |
| FI | E-mail from E. Kimbrel to X. Wang re how'd it go? | 3/19/2012 | IMSTEM-0005291 | IMSTEM-0005292 | | H, LA, LF, LK | |
| FJ | E-mail from E. Kimbrel to R. Xu re data? | 4/12/2012 | IMSTEM-0005351 | IMSTEM-0005353 | | H, LA, LF, LK | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|----------------|----------------|----------------|---|------------|
| FK | E-mail from E. Kimbrel to X. Wang re new experiment | 1/10/2013 | IMSTEM-0006395 | IMSTEM-0006396 | | H, LA, LF, LK | |
| FL | E-mail from X. Wang to R. Xu re MSC protocol with attached protocols | 4/5/2012 | IMSTEM-0008919 | IMSTEM-0008921 | | H, LA, LF, LK | |
| FM | E-mail from R. Xu to X. Wang re Aim 1.1 drafted attaching specific aim 1 | 12/29/2012 | IMSTEM-0017312 | IMSTEM-0017323 | | H, LA, LF, LK | |
| FN | E-mail from X. Wang to R. Xu re aim 1 and 3 latest version attaching draft Aims | 1/2/2013 | IMSTEM-0018948 | IMSTEM-0018971 | | H, LA, LF, LK | |
| FO | E-mail from X. Wang to R. Xu re a few add on to 1.1c attaching draft aims | 1/1/2013 | IMSTEM-0018972 | IMSTEM-0018988 | | H, LA, LF, LK | |
| FP | E-mail from X. Wang to R. Xu re modified aim 1 attaching draft aim | 1/1/2013 | IMSTEM-0018989 | IMSTEM-0019005 | | H, LA, LF, LK | |
| FQ | Annual Technical Progress Report for Stem Cell Research Grants | 9/30/2015 | IMSTEM-0020962 | IMSTEM-0020986 | | H, LA, LF, LK | |
| FR | Annual technical progress report for Stem Cell Research Grants | 9/30/2014 | IMSTEM-0021416 | IMSTEM-0021469 | | H, LA, LF, LK | |
| FS | Plaintiffs' Objections and Responses to Defendants' Fifth Set of Interrogatories (30-34) | 10/11/2019 | | | | BE, R, H, P, IO, LA, LF, LK | Hearsay. |
| FT | Plaintiffs' Objections and Responses to Defendants' Second Set of Interrogatories (Nos. 11-25) | 5/2/2019 | | | | BE, R, H, P, IO, LA, LF, LK | Hearsay. |
| FU | Plaintiffs' Objections and Responses to Defendants' Third Set of Interrogatories (Nos. 26-28) | 6/27/2019 | | | | BE, R, H, P, IO, LA, LF, LK | Hearsay. |
| FV | Email from Mary Fleishell to Erin Kimbrel; withheld as privileged--attaching WO 2014/011407 A2 | 2/21/2014 | AIRM00037250 | AIRM00037387 | | AC, A, BE, H, LA, LF, LK, MIL, NP, P, R | |
| FW | E-mail from E. Kimbrel to J. Lu re use of irradiated MSCs with publications attached | 8/11/2011 | AIRM00049373 | AIRM00049402 | | H, I, LA, LF, LK | |
| FX | Harnessing the Power of Mesenchymal Stromal Cells - Lab meeting presentation | 8/19/2011 | AIRM00180701 | AIRM00180727 | | P, I | |
| FY | E-mail from E. Kimbrel to J. Lu with attachment | 12/14/2010 | AIRM00233145 | AIRM00233176 | | H, I, LA, LF, LK | |
| FZ | Email from Kimbrel to Lu re (blank) | 12/14/2010 | AIRM00233145 | AIRM00233147 | | H, I, LA, LF, LK | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|------------|--|--|----------------|--|------------|
| GA | 321 and '956 Patent assignments dates of Feb/Mar 2014, Nov 2014 and May 2016 | 5/2/2016 | AIRM00297766 AIRM00297769 AIRM00297773 AIRM00297780 | AIRM00297768 AIRM00297773 AIRM00297780 | | H, IS, LA, LF, LK, MD, NP | |
| GB | U.S. Patent 9,725,698 | 8/8/2017 | AIRM00299694 | AIRM00299739 | | IO | |
| GC | Article: Wang, et al. Human ESC-Derived MSCs Outperform Bone Marrow MSCs in the Treatment of an EAE Model of Multiple Sclerosis, Stem Cell Reports v.3, 115-130 | 7/8/2014 | IMSTEM-0019516 | IMSTEM-0019546 | | IO, H, I | |
| GD | 2012 Grant Application | 1/13/2012 | IMSTEM-0040209 | IMSTEM-0040281 | | H, I, LA | |
| GE | Article: Martins-Taylor, et al. <i>Stem Cells and Tissue Regeneration Chapter 3</i> | 11/12/2012 | IMSTEM-0041795 | IMSTEM-0041824 | | P, H | |
| GF | Astellas Acquires Universal Cells, Inc., Astellas Pharma Inc | 2/13/2018 | AIRM00298832 | AIRM00298833 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. | |
| GG | Squillaro, T., Clinical Trials With Mesenchymal Stem Cells: An Update, Cell Transplantation, Vol. 25:829-848 (2016) | 2016 | AIRM00298848 | AIRM00298867 | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. | |
| GH | History ImStem Website | | AIRM00298877 | AIRM00298877 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. | |
| GI | Astellas Annual Report 2018 | 2018 | AIRM00299096 | AIRM00299253 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay; inconsistent with Plaintiffs' Motion in Limine re corporate size. | |
| GJ | Global Regenerative Medicine Market Will Reach USD 48.97 Billion By 2025, Zion Market Research | 5/30/2019 | AIRM00299258 | AIRM00299260 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. | |
| GK | Kemp, P., History of regenerative medicine: looking backwards to move forwards, Regenerative Med. 1(5), 653-69 (2006) | 2006 | AIRM00299261 | AIRM00299277 | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|----------------|----------------|----------------|------------|--|
| GL | E-mail from R. Xu to X. Wang re MSC-BP attaching a draft business plan | 3/9/2012 | IMSTEM-0040473 | IMSTEM-0040491 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| GM | Initiatives in Cell Therapy, R&D Meeting - December 13, 2018, Astellas | 12/13/2018 | AIRM00298882 | AIRM00298941 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| GN | Xu, C. & Carpenter, M.K., Feeder-Free Culture, in Handbook of Stem Cells Vol. 1 Embryonic, 535-42 (Lanza, R., et al. eds., 2004) | 1/1/2004 | AIRM00289941 | AIRM00289947 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| GO | Klimanskaya, I. et al., Human Embryonic Stem Cell Lines Derived from Single Blastomeres, <i>Nature</i> , 444:481-485 (2006) | 1/1/2006 | AIRM00290120 | AIRM00290125 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| GP | Klimanskaya, I. et al., Human Embryonic Stem Cells Derived Without Feeder Cells, <i>Lancet</i> , 365:1636-41 (2005) | 1/1/2005 | AIRM00290132 | AIRM00290138 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| GQ | Defendant Ren-He Xu's Responses to Astellas' First set of Interrogatories (1-21) | 3/6/2019 | | | | | Hearsay. |
| GR | Trivedi, P. & Hematti P., Derivation and immunological characterization of mesenchymal stromal cells from human embryonic stem cells, <i>Experimental Hematology</i> , 36:350-359 (2008) | 1/1/2008 | AIRM00171102 | AIRM00171111 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| GS | Di Nicola, M. et al., Human bone marrow stromal cells suppress T-lymphocyte proliferation induced by cellular or nonspecific mitogenic stimuli, <i>Blood</i> , 99:3838-3843 (2002) | 1/1/2002 | AIRM00259954 | AIRM00259960 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| GT | E-mail from E. Kimbrel to X. Wang re in vitro data disclosure with attachments | 4/3/2012 | IMSTEM-0005455 | IMSTEM-0005458 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| GU | E-mail from E. Kimbrel to X. Wang re Astellas approving \$10,000 budget upon Dr. Wang's request to order hES culture reagents | 8/23/2012 | IMSTEM-0005999 | IMSTEM-0006001 | | | Relevance (FRE 401-402). |
| GV | E-mail from E. Kimbrel to X. Wang re order EAE Induction Kit | 1/28/2013 | IMSTEM-0006192 | IMSTEM-0006192 | | | Relevance (FRE 401-402). |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|-----------|----------------|----------------|----------------|------------|--|
| GW | E-mail from X. Wang to R. Xu re FW: data and info for grants with attached slides | 3/28/2011 | IMSTEM-0007990 | IMSTEM-0007994 | | | Incomplete Document (FRE 106), |
| GX | E-mail from X. Wang to E. Kimbrel re leaving around 11:30am | 4/23/2012 | IMSTEM-0009014 | IMSTEM-0009015 | | | Relevance (FRE 401-402). |
| GY | Bocelli-Tyndall, C. et al., Bone marrow mesenchymal stromal cells (BM-MSCs) from healthy donors and auto-immune disease patients reduce the proliferation of autologous- and allogeneic-stimulated lymphocytes in vitro, <i>Rheumatology</i> , 46:403-408 (2007) | 2007 | AIRM00298300 | AIRM00298305 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| GZ | Fujikawa, T. et al., Teratoma Formation Leads to Failure of Treatment for Type I Diabetes Using Embryonic Stem Cell-Derived Insulin-Producing Cells, <i>Am. J. Pathology</i> , 166(6):1781-1791 (2005) | 2005 | AIRM00298536 | AIRM00298546 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HA | Gothenstrom, C. et al., Immunomodulatory effects of human foetal liver-derived mesenchymal stem cells, <i>Bone Marrow Transplantation</i> , 32:265-272 (2003) | 2003 | AIRM00298556 | AIRM00298563 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HB | Hentze, H. et al., Cell therapy and the safety of embryonic stem cell-derived grafts, <i>Trends in Biotechnology</i> , 25:24-32 (2007) | 2007 | AIRM00298575 | AIRM00298583 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HC | Li, C.D. et al., Mesenchymal stem cells derived from human placenta suppress allogeneic umbilical cord blood lymphocyte proliferation, <i>Cell Res.</i> , 15(7):539-547 (2005) | 2005 | AIRM00298595 | AIRM00298603 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HD | Blum, B. & Benvenisty, N., The Tumorigenicity of Human Embryonic Stem Cells, <i>Advances in Cancer Res.</i> , 100:133-158 (2008) | 1/1/2008 | AIRM00299380 | AIRM00299405 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|----------|--------------|--------------|----------------|------------|--|
| HE | Gerdoni, E. et al., Mesenchymal Stem Cells Effectively Modulate Pathogenic Immune Response in Experimental Autoimmune Encephalomyelitis, <i>Annals of Neurol.</i> , 61(3):219-227 (2007) | 1/1/2007 | AIRM00299406 | AIRM00299414 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HF | Haynesworth, S. et al., Cytokine Expression by Human Marrow-Derived Mesenchymal Progenitor Cells In Vitro: Effects of Dexamethasone and IL-1 alpha, <i>J. Cell Physiol.</i> , 166:585-592 (1996) | 1/1/1996 | AIRM00299422 | AIRM00299429 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HG | Heng, B. et al., Transplanted human embryonic stem cells as biological 'catalysts' for tissue repair and regeneration, <i>Med. Hypotheses</i> , 64(6):1085-1088 (2005) | 1/1/2005 | AIRM00299430 | AIRM00299433 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HH | Ishihara, K. & Hirano, T., IL-6 in autoimmune disease and chronic inflammatory proliferative disease, <i>Cytokine & Growth Factor Revs.</i> , 13:357-368 (2002) | 1/1/2002 | AIRM00299434 | AIRM00299445 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HI | Karussis, D. & Kassis, I., The potential use of stem cells in multiple sclerosis: An overview of the preclinical experience, <i>Clinical Neurol. and Neurosurgery</i> , 110:889-896 (2008) | 1/1/2008 | AIRM00299460 | AIRM00299467 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HJ | Kassis, I. et al., Neuroprotection and Immunomodulation with mesenchymal stem cells in chronic experimental autoimmune encephalomyelitis, <i>Arch Neurol</i> , 2008 65(6):753-61 (2008) | 1/1/2008 | AIRM00299468 | AIRM00299476 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HK | Liang, J. et al., Allogeneic mesenchymal stem cells transplantation in treatment of multiple sclerosis, <i>Multiple Sclerosis J.</i> , 15:644-646 (2009) | 1/1/2009 | AIRM00299477 | AIRM00299480 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|------------|--------------|--------------|----------------|------------|--|
| HL | Mohyeddin, B. et al., Mesenchymal Stem Cell Therapy for Multiple Sclerosis, <i>Int'l J. of Hematology-Oncology and Stem Cell Res.</i> , 2(5):10-15 (2005) | 1/1/2005 | AIRM00299501 | AIRM00299505 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HM | Mohyeddin, B. et al., Does Mesenchymal Stem Cell Therapy Help Multiple Sclerosis Patients? Report of a Pilot Study, <i>Iranian J. of Immunol.</i> , 4(1):50-57 (2007) | 1/1/2007 | AIRM00299506 | AIRM00299513 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HN | Park, C.W. et al., Cytokine Secretion Profiling of Human Mesenchymal Stem Cells by Antibody Array, <i>Int'l J. of Stem Cells</i> , 2(1):59-68 (2009) | 1/1/2009 | AIRM00299538 | AIRM00299547 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HO | Potian, J.A. et al., Veto-Like Activity of Mesenchymal Stem Cells: Functional Discrimination Between Cellular Responses to Alloantigens and Recall Antigens, <i>J Immunol.</i> , 171:3426-3434 (2003) | 1/1/2003 | AIRM00299548 | AIRM00299557 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HP | Qiao, C., et al., Human mesenchymal stem cells isolated from the umbilical cord, <i>Cell Bio. Int'l</i> , 32:8-15 (2008) | 1/1/2008 | AIRM00299558 | AIRM00299565 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HQ | Rasmussen, I. et al., Mesenchymal Stem Cells Inhibit The Formation of Cytotoxic T Lymphocytes, But Not Activated Cytotoxic T Lymphocytes or Natural Killer Cells, <i>Transplantation</i> , 76:1208-1213 (2003) | 10/27/2003 | AIRM00299566 | AIRM00299571 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HR | Samoilova, E.B. et al., IL-6-Deficient Mice Are Resistant to Experimental Autoimmune Encephalomyelitis: Roles of IL-6 in the Activation and Differentiation of Autoreactive T Cells, <i>J. of Immunol.</i> , 161:6480-6486 (1998) | 1/1/1998 | AIRM00299572 | AIRM00299579 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|-----------|--------------|--------------|----------------|------------|---|
| HS | Slavin, S. et al., The potential use of adult stem cells for the treatment of multiple sclerosis and other neurodegenerative disorders, <i>Clinical Neurol. and Neurosurgery</i> , 110:943-946 (2008) | 1/1/2008 | AIRM00299580 | AIRM00299583 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HT | Tan, Z. et al., Immunomodulatory effects of mesenchymal stem cells derived from human embryonic stem cells in vivo and in vitro, <i>J. of Zhejiang U.</i> , 12(1):18-27 (2010) | 1/1/2011 | AIRM00299584 | AIRM00299593 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HU | Zhang, J. et al., Human bone marrow stromal cell treatment improves neurological functional recovery in EAE mice, <i>Experimental Neurol.</i> , 195:16-26 (2005) | 5/17/2005 | AIRM00299602 | AIRM00299612 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HV | Dicker, A. et al., Functional studies of mesenchymal stem cells derived from adult human adipose tissue, <i>Experimental Cell Res.</i> , 308:283-290 (2005) | 5/31/2005 | AIRM00299621 | AIRM00299628 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HW | Lock, C. et al., Gene-microarray analysis of multiple sclerosis lesions yields new targets validated in autoimmune encephalomyelitis, <i>Nature Med.</i> , 8(5):500-508 (2002) | 5/1/2002 | AIRM00299629 | AIRM00299637 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HX | Leblanc et al., Mesenchymal Stem Cells Inhibit and Stimulate Mixed Lymphocyte Cultures and Mitogenic Responses Independently of the Major Histocompatibility Complex, <i>Scandinavian J. of Immunol.</i> , 57:11-20 (2003) | 1/1/2003 | AIRM00299638 | AIRM00299647 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| HY | E-mail from RayBiotech to E. Kimbrel re price estimate for custom array with attachment | 2/7/2012 | AIRM00297340 | AIRM00297347 | | | Relevance (FRE 401-402). |
| HZ | ACT Purchase Requisition Form | 2/9/2012 | AIRM00170061 | AIRM00170061 | | | Relevance (FRE 401-402); Incomplete Document (FRE 106). |
| IA | SCRMI Progress Report by J. Lu | 5/1/2010 | AIRM00281769 | AIRM00281791 | | | Relevance (FRE 401-402). |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|--------------|--------------|----------------|------------|--|
| IB | E-mail from R. Xu to S. Lu and E. Kimbrel, copying X. Wang, re in vivo MSC collaboration | 11/30/2011 | AIRM00016052 | AIRM00016054 | | | Hearsay. |
| IC | Robert Lanza Updated Curriculum Vitae | | | | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| ID | E-mail from X. Wang to E. Kimbrel, copying R. Xu re any word? Attaching EAE data excel | 5/23/2013 | AIRM00029266 | AIRM00029267 | | | Hearsay. |
| IE | E-mail from X. Wang to E. Kimbrel re Queries for your article in Stem Cell Reports (Stemcr140) | 5/2/2014 | AIRM00039057 | AIRM00039059 | | | Relevance. |
| IF | E-mail from R. Lanza to R. Lanza re CV attaching CV | 5/24/2016 | AIRM00086077 | AIRM00086110 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IG | E-mail from R. Levinson to E. Kimbrel, R. Lanza, and others re MSC uveitis with attachments | 8/19/2013 | AIRM00142756 | AIRM00142785 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IH | Gonzalez, M.A., et al., Treatment of Experimental Arthritis by Inducing Immune Tolerance With Human Adipose-Derived Mesenchymal Stem Cells, <i>Arthritis & Rheumatism</i> , 60(4):1006-1019 (2009) | 1/1/2009 | AIRM00170616 | AIRM00170629 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| II | Yamout, B. et al., Bone marrow mesenchymal stem cell transplantation in patients with multiple sclerosis: A pilot study, <i>J. of Immunol.</i> , doi: 10.1016/j.jneuroim.2010.07.013 (2010) | 7/19/2010 | AIRM00171057 | AIRM00171061 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IJ | Data slides | 10/9/2012 | AIRM00192348 | AIRM00192351 | | | Relevance (FRE 401-402). |
| IK | E-mail from X. Wang to J. Lu re iPSC-MSC in EAE attaching invoice | 8/7/2013 | AIRM00230406 | AIRM00230408 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IL | E-mail from E. Kimbrel to X. Wang re hi collaboration | 11/23/2010 | AIRM00233017 | AIRM00233017 | | | Hearsay. |
| IM | The buzz surrounding MSCs | 6/27/2011 | AIRM00247661 | AIRM00247668 | | | Hearsay; Incomplete Document (FRE 106). |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|------------|--------------|--------------|----------------|------------|---|
| IN | Generation of MSCs from hESC-derived hemangioblasts | 12/22/2010 | AIRM00247676 | AIRM00247677 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Authentication (FRE 901). |
| IO | Connick, P. et al., Autologous mesenchymal stem cells for the treatment of secondary progressive multiple sclerosis: an open-label phase 2a proof-of-concept study, <i>the Lancet</i> , 11:150-156 (2012) | 2/1/2012 | AIRM00248074 | AIRM00248080 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IP | Qin Y, et al., Human Embryonic Stem Cell-Derived Mesenchymal Stromal Cells Decrease the Development of Severe Experimental Autoimmune Uveitis in B10. RIII Mice. Ocular immunology and inflammation. 2018 Nov 17;26(8):1228-36 | 11/7/2018 | AIRM00262391 | AIRM00262400 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IQ | Le Blanc, K. et al., HLA expression and immunologic properties of differentiated and undifferentiated mesenchymal stem cells, <i>Experimental Hematology</i> , 31:890-896 (2003) | 2003 | AIRM00298355 | AIRM00298361 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IR | Augello et al., Bone marrow mesenchymal progenitor cells inhibit lymphocyte proliferation by activation of the programmed death 1 pathway, <i>Eur. J. Immunology</i> , 35:1482-1490 (2005) | 2005 | AIRM00298362 | AIRM00298370 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IS | Caniglia et al., The effect of intralesional injection of bone marrow derived mesenchymal stem cells and bone marrow supernatant on collagen fibril size in a surgical model of equine superficial digital flexor tendonitis, <i>Equine Veterinary J.</i> , 44:587-593 (2011) | 2011 | AIRM00298371 | AIRM00298377 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |

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|-----------------|--|------|--------------|--------------|----------------|------------|--|
| IT | Ahsan, T., Doyle, A.M., & Nerem, R.M., Stem Cell Research, <i>in</i> Foundations of Regenerative Medicine, 28-47 (Atala, A., Lanza, R., Thomson, J.A., & Nerem, R.M., eds., 2010) | 2010 | AIRM00298378 | AIRM00298405 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IU | Levine, A.J. & Brivanlou, A.H., The Molecular Basis of Pluripotency in Principles of Regenerative Medicine, <i>in</i> Foundations of Regenerative Medicine, 126-135 (Atala, A., Lanza, R., Thomson, J.A., & Nerem, R.M., eds., 2010) | 2010 | AIRM00298406 | AIRM00298423 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IV | Yu, J. & Thompson, J.A., Embryonic Stem Cells: Derivation and Properties, <i>in</i> Foundations of Regenerative Medicine, 138-153 (Atala, A., Lanza, R., Thomson, J.A., & Nerem, R.M., eds., 2010) | 2010 | AIRM00298424 | AIRM00298447 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IW | Chung, Y., et al., Embryonic and Extraembryonic Stem Cell Lines Derived From Single Mouse Blastomeres, <i>Nature</i> , 439(7073):216-219 (2005) | 2005 | AIRM00298448 | AIRM00298451 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IX | Einstein et al., Neural Precursors Attenuate Autoimmune Encephalomyelitis by Peripheral Immunosuppression, <i>Annual Neurology</i> , 61:209-218 (2007) | 2007 | AIRM00298485 | AIRM00298494 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IY | Schwartz, S. D. et al., Embryonic Stem Cell Trials for Macular Degeneration: A Preliminary Report, <i>Lancet</i> , 379:713-20 (2012) | 2012 | AIRM00298495 | AIRM00298502 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| IZ | Evans, M.J. & Kaufman, M.H., Establishment in Culture of Pluripotential Cells from Mouse Embryos, <i>Nature</i> , 292:154-156 (1981)). | 1981 | AIRM00298503 | AIRM00298505 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |

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|-----------------|--|------|--------------|--------------|----------------|------------|--|
| JA | Friedenstein et al., The Development of Fibroblast Colonies in Marrow and Spleen Cells Monolayer Cultures of Guinea-Pig Bone, <i>Cell Tissue Kinetics</i> , 3:393-403 (1970) | 1970 | AIRM00298525 | AIRM00298535 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JB | Kim, D. et al., Generation of Human Induced Pluripotent Stem Cells by Direct Delivery of Reprogramming Proteins, <i>Cell Stem Cell</i> , 4:472-76 (2009) | 2009 | AIRM00298547 | AIRM00298555 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JC | Lu, S. J., et al., Hemangioblasts from Human Embryonic Stem Cells Generate Multilayered Blood Vessels with Functional Smooth Muscle Cells, <i>Regenerative Medicine</i> , 4:37-47 (2009) | 2009 | AIRM00298564 | AIRM00298574 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JD | Schwartz, S. D. et al., Human Embryonic Stem Cell-Derived Retinal Pigment Epithelium in Patients with Age-Related Macular Degeneration and Stargardt's Macular Dystrophy: Follow-Up of Two Open-Label Phase 1/2 Studies, <i>Lancet</i> , 385:509-16 (2015) | 2015 | AIRM00298584 | AIRM00298591 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JE | Lanza, R. et al., Human Therapeutic Cloning, <i>Nature Medicine</i> , 5:975-77 (1999) | 1999 | AIRM00298592 | AIRM00298594 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JF | Sato, N., et. al., Molecular Signature of Human Embryonic Stem Cells and Its Comparison with the Mouse, <i>Developmental Biology</i> , 260:404-413 (2003) | 2003 | AIRM00298604 | AIRM00298613 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JG | Ohnishi et al., Transplantation of mesenchymal stem cells attenuates myocardial injury and dysfunction in a rat model of acute myocarditis, <i>J. Molecular & Cellular Cardiology</i> , 42:88-97 (2007) | 2007 | AIRM00298614 | AIRM00298623 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |

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|-----------------|--|------------|--------------|--------------|----------------|------------|--|
| JH | Lu, S.J. et al., Robust Generation of Hemangioblastic Progenitors from Human Embryonic Stem Cells, <i>Regenerative Medicine</i> , 3:693-704 (2008) | 2008 | AIRM00298624 | AIRM00298635 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JI | Brivanlou, A.H. & Darnell, J.E. Jr., Signal Transduction and the Control of Gene Expression, <i>Science</i> , 295:813-818 (2002) | 2002 | AIRM00298636 | AIRM00298641 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JJ | Spagnoli, F.M. & Brivanlou, A.H., A Full Menu for Stem-Cell Research, <i>Genome Biology</i> , 6(3):311 (2005) | 2005 | AIRM00298642 | AIRM00298643 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JK | Lanza R., Stem cell breakthrough: don't forget ethics, <i>Science</i> , 318:1865 (2007) | 2001 | AIRM00298644 | AIRM00298646 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JL | Tabibzadeh, S. & Hemmati-Brivanlou, A., <i>Lefty at the Crossroads of "Stemness" and Differentiative Events</i> , <i>Stem Cells</i> , 24:1998-2006 (2006) | 2006 | AIRM00298647 | AIRM00298655 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JM | Lanza, R. et al., The ethical reasons for stem cell research, <i>Science</i> , 292:1299 (2001) | 2001 | AIRM00298656 | AIRM00298657 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JN | Warmflash, A., Arduini, G.L., & Brivanlou, A.H., The Molecular Circuitry Underlying Pluripotency in Embryonic Stem Cells, <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 4(5):443-456 (2012) | 2012 | AIRM00298685 | AIRM00298706 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JO | Zakrzewski et al., Stem cells: past, present, and future, <i>Stem Cell Research & Therapy</i> , 10:68 (2019) | 2019 | AIRM00298707 | AIRM00298728 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JP | Canadian patent No. 2,792,802 | 10/31/2017 | AIRM00298729 | AIRM00298818 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |

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|-----------------|--|------------|--------------|--------------|----------------|------------|--|
| JQ | Han-soo, L. "CHA Biotech to transfer SCRMI shares, technology to AIRM", Korean Biomedical Review, (June 25, 2019) | 6/25/2019 | AIRM00298819 | AIRM00298820 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JR | Press Release: Advanced Cell Technology Obtains Exclusive License for Hemangioblast Technology in North America (July 21, 2011) | 7/25/2011 | AIRM00298821 | AIRM00298826 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JS | Press Release: Astellas Announces Results of Tender Offer to Acquire All Outstanding Shares of Ocata Therapeutics and Changes to Subsidiaries, Astellas Pharma Inc (Feb. 10, 2016) | 2/10/2016 | AIRM00298827 | AIRM00298931 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JT | Fortier, Stem Cells: Classifications, Controversies, and Clinical Applications, <i>Veterinary Surgery</i> , 34:415-423 (2005) | 1/1/2005 | AIRM00298834 | AIRM00298842 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JU | U.S. Corporate Profile, Astellas Pharma US | | AIRM00298843 | AIRM00298844 | | | For reasons stated in Defendants' Motion in Limine and inconsistent with Plaintiffs' Motion in Limine re corporate size. |
| JV | Jiang, L., "Advanced Cell Technology, Inc." The Embryo Project Encyclopedia | 6/25/2010 | AIRM00298845 | AIRM00298846 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JW | Advanced Cell Technology Changes Name to Ocata Therapeutics, Business Wire | 11/24/2014 | AIRM00298847 | AIRM00298847 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JX | Yu, J. et al, Embryonic Stem Cells stemcells.nih.gov | 2006 | AIRM00298868 | AIRM00298876 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|----------|--------------|--------------|----------------|------------|---|
| JY | Menaa, F. et al., Impact and Challenges of Mesenchymal Stem Cells in Medicine: An Overview of the Current Knowledge, <i>Stem Cells Int'l</i> , Vol. 2018, Article ID5023925 (2018) | 2018 | AIRM00298878 | AIRM00298881 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| JZ | Gross, M., Pushing stem cells to market, <i>Current Biology</i> , Vol. 15 No. 15 | 1/1/2005 | AIRM00298964 | AIRM00298965 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay, |
| KA | Definition: Regenerative Medicine, AABB Center for Cellular Therapies | | AIRM00298972 | AIRM00298973 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KB | Romanov, Y. et al., Searching for Alternative Sources of Postnatal Human Mesenchymal Stem Cells: Candidate MSC-Like Cells from Umbilical Cord, <i>Stem Cells</i> 21:105-110 (2003) | 2003 | AIRM00298974 | AIRM00298980 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay; Inadmissible Compilation of Two Unrelated Documents. |
| KC | Coghlan, A., Stem cell timeline, The history of a medical sensation, <i>New Scientist</i> (Jan. 30, 2014) | 2014 | AIRM00298981 | AIRM00298984 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KD | Patentscope for International App WO 2013/082543 A1 | | AIRM00298987 | AIRM00298987 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay; Incomplete Document (FRE 106); Not the Best Evidence. |
| KE | Van De Walle, G.R., et al., Mesenchymal Stem Cell Therapy, <i>Equine Clinical Immunology</i> , 31:297-309 (2016) | 2016 | AIRM00298988 | AIRM00299000 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KF | Jung, D.I., et al., A comparison of autologous and allogenic bone marrow-derived mesenchymal stem cell transplantation in canine spinal cord injury, <i>Journal of Neurological Sciences</i> , 285,67-77 (2009) | 2009 | AIRM00299001 | AIRM00299011 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|-----------|--------------|--------------|----------------|------------|--|
| KG | Marfe, G., et al., Blood derived stem cells: an ameliorative therapy in veterinary ophthalmology, <i>J. of Cellular Physiology</i> , 227(3), 1250-1256 (2012) | 2012 | AIRM00299012 | AIRM00299018 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KH | Jamnig, A. & Lepperdinger, G., From tendon to nerve: an MSC for all seasons, <i>Canadian J. of Physiology and Pharmacology</i> , 90(3):295-306 (2012) | 2012 | AIRM00299019 | AIRM00299031 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KI | Gupta, P.K., et al., Mesenchymal stem cells for cartilage repair in osteoarthritis, <i>Stem Cell Research and Therapy</i> , 3:25 (2012) | 2012 | AIRM00299032 | AIRM00299040 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KJ | Gold, R., et al., Understanding pathogenesis and therapy of multiple sclerosis via animal models: 70 years of merits and culprits in experimental autoimmune encephalomyelitis research, <i>Brain</i> , 129:1953-1971 (2006) | 2006 | AIRM00299041 | AIRM00299059 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KK | M.L. Delco & L.A. Fortier, Integrin $\alpha 10\beta 1$ -selected Mesenchymal Stem Cells Mitigate the Progression of Osteoarthritis in an Equine Talar Impact Model, <i>Am. J. of Sports Medicine</i> (2019) (unpublished manuscript) (on file with authors) | 1/1/2019 | AIRM00299060 | AIRM00299087 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KL | Hartman, Z., Addressing A Major Public Need, The Ocata Preclinical Pipeline, Part 2 Platelet Production, Seeking Alpha, (Oct. 1, 2015) | 10/1/2015 | AIRM00299088 | AIRM00299095 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KM | Tirole, J., Traditional Cournot Analysis, The Theory of Industrial Organization, Chapter 5, p. 218-221 (1994) | 1994 | AIRM00299278 | AIRM00299287 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KN | Jing, D., et al., Hematopoietic stem cells in co-culture with mesenchymal stromal cells-modeling the niche compartments in vitro, <i>Haematologica</i> , 95(4):542-550 (2010) | 2010 | AIRM00299288 | AIRM00299296 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|--------------|--------------|----------------|------------|--|
| KO | Dominici, M., et al., Minimal criteria for defining multipotent mesenchymal stromal cells. The International Society for Cellular Therapy position statement, <i>Cytotherapy</i> , 8(4):315-317 (2006) | 2006 | AIRM00299297 | AIRM00299299 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KP | Corning Matrigel Matrix Frequently Asked Questions | | AIRM00299347 | AIRM00299354 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KQ | Sigma Aldrich, Product Information Sheet, Stemline II Medium | | AIRM00299355 | AIRM00299357 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KR | Deglincerti, A. et al., Self-Organization of Spatial Patterning in Human Embryonic Stem Cells, <i>Current Topics in Developmental Biology</i> , 116:99-113 (2016) | 1/1/2016 | AIRM00299358 | AIRM00299371 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KS | Kappos, L. et al., Ocrelizumab in relapsing-remitting multiple sclerosis: a phase 2, randomised, placebo-controlled, multicentre trial, <i>Lancet</i> , 378:1779-1787 (2011) | 1/1/2011 | AIRM00299446 | AIRM00299459 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KT | Liotta, F. et al., Toll-Like Receptors 3 and 4 Are Expressed by Human Bone Marrow-Derived Mesenchymal Stem Cells and Can Inhibit Their T-Cell Modulatory Activity by Impairing Notch Signaling, <i>Stem Cells</i> , 26:279-89 (2007) | 10/25/2007 | AIRM00299481 | AIRM00299491 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KU | Najar, M. et al., Mesenchymal stromal cells promote or suppress the proliferation of T lymphocytes from cord blood and peripheral blood: the importance of low cell ratio and role of interleukin-6, <i>Cytotherapy</i> , 11(5):570-583 (2009) | 1/1/2009 | AIRM00299514 | AIRM00299527 | | | Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|----------------|----------------|----------------|------------|---|
| KV | Advanced Cell Technology to Participate on Panels and Host Experts Luncheon at 2012 World Stem Cell Summit, FierceBiotech (2012) | 12/4/2012 | AIRM00299740 | AIRM00299740 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KW | Advanced Cell Technology Receives FDA Clearance For the First Clinical Trial Using Embryonic Stem Cells to Treat Macular Degener, FierceBiotech (2010) | 11/22/2010 | AIRM00299741 | AIRM00299742 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KX | Press Release: Astellas to acquire Ocata Therapeutics | 11/9/2015 | AIRM00299748 | AIRM00299750 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KY | Advanced Cell Technology to Present at Two Upcoming Conferences, FierceBiotech (2011) | 9/8/2011 | AIRM00299751 | AIRM00299752 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| KZ | NIH Approves Advanced Cell Technology's Stem Cell Line for Federal Funding, FierceBiotech (2010) | 6/11/2010 | AIRM00299753 | AIRM00299754 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| LA | Zhuhai Hengqin ImStem Biotechnology, Co. Ltd company records from National Enterprise Credit Information Publicity System and translation | | AIRM00299755 | AIRM00299789 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay; For reasons stated in Defendants' Motion in Limine re China. |
| LB | E-mail from E. Kimbrel to X. Wang re mice arrived one week early | 11/20/2012 | IMSTEM-0004949 | IMSTEM-0004950 | | | Relevance (FRE 401-402). |
| LC | E-mail from E. Kimbrel to X. Wang re EAE model and experiments | 3/1/2012 | IMSTEM-0005311 | IMSTEM-0005315 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| LD | E-mail from N. Kouris to X. Wang and E. Kimbrel, copying R. Xu, re EAE Studies | 6/14/2012 | IMSTEM-0005744 | IMSTEM-0005746 | | | Relevance (FRE 401-402). |
| LE | E-mail from E. Kimbrel to X. Wang re Astellas giving Dr. Wang MSCs for teratoma assays | 8/23/2012 | IMSTEM-0006002 | IMSTEM-0006004 | | | Relevance (FRE 401-402). |
| LF | E-mail from E. Kimbrel to X. Wang re hello again | 8/7/2012 | IMSTEM-0006131 | IMSTEM-0006132 | | | Relevance (FRE 401-402). |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|----------------|----------------|----------------|------------|--|
| LG | E-mail from E. Kimbrel to X. Wang re immunizations today or tomorrow? | 11/29/2012 | IMSTEM-0006145 | IMSTEM-0006145 | | | Relevance (FRE 401-402). |
| LH | E-mail from E. Kimbrel to X. Wang re photos with 100 um scale bar | 3/18/2013 | IMSTEM-0006576 | IMSTEM-0006576 | | | Relevance (FRE 401-402). |
| LI | E-mail from E. Kimbrel to X. Wang re revision plan | 6/28/2013 | IMSTEM-0007035 | IMSTEM-0007037 | | | Relevance (FRE 401-402). |
| LJ | E-mail from E. Kimbrel to X. Wang re urgent | 6/28/2013 | IMSTEM-0007052 | IMSTEM-0007053 | | | Relevance (FRE 401-402). |
| LK | E-mail from X. Wang to E. Kimbrel re two moive first | 3/29/2012 | IMSTEM-0008786 | IMSTEM-0008788 | | | Relevance (FRE 401-402). |
| LL | E-mail from X. Wang to E. Kimbrel re FedEx track 798130529810 | 3/6/2012 | IMSTEM-0008839 | IMSTEM-0008841 | | | Relevance (FRE 401-402). |
| LM | E-mail from X. Wang to E. Kimbrel re EAE Model and Experiments | 2/27/2012 | IMSTEM-0008848 | IMSTEM-000852 | | | Relevance (FRE 401-402). |
| LN | E-mail from X. Wang to E. Kimbrel re update | 4/9/2012 | IMSTEM-0008913 | IMSTEM-0008915 | | | Relevance (FRE 401-402). |
| LO | E-mail from X. Wang to R. Xu re MSC protocol | 4/9/2012 | IMSTEM-0008916 | IMSTEM-0008916 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| LP | E-mail from X. Wang to E. Kimbrel re EAE studies | 5/3/2012 | IMSTEM-0009001 | IMSTEM-0009002 | | | Relevance (FRE 401-402). |
| LQ | E-mail from X. Wang to E. Kimbrel re MSCs for gene expression analysis? | 4/19/2012 | IMSTEM-0009017 | IMSTEM-0009018 | | | Relevance (FRE 401-402). |
| LR | E-mail from X. Wang to E. Kimbrel re leaving now | 11/13/2012 | IMSTEM-0009686 | IMSTEM-0009686 | | | Relevance (FRE 401-402). |
| LS | E-mail from X. Wang to E. Kimbrel re Reagent List | 11/5/2012 | IMSTEM-0009699 | IMSTEM-0009699 | | | Relevance (FRE 401-402). |
| LT | E-mail from X. Wang to E. Kimbrel re Which EAE induction kit to order | 11/25/2012 | IMSTEM-0009756 | IMSTEM-0009756 | | | Relevance (FRE 401-402). |
| LU | E-mail from X. Wang to E. Kimbrel re cells to you | 3/19/2013 | IMSTEM-0009943 | IMSTEM-0009943 | | | Relevance (FRE 401-402). |
| LV | E-mail from X. Wang to E. Kimbrel re what day for injections of MSCs? | 1/30/2013 | IMSTEM-0010130 | IMSTEM-0010131 | | | Relevance (FRE 401-402). |
| LW | Formatted and excerpted version of ImStem-0011870 (excerpt as used in Dr. Fortier Rebuttal Report) | 6/22/2012 | IMSTEM-0011870 | IMSTEM-11870 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Incomplete Document (FRE 106); Not Evidence. |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|------------|----------------|----------------|----------------|------------|--|
| LX | E-mail from R. Xu to E. Kimbrel and X. Wang re Sunday | 10/11/2013 | IMSTEM-0016184 | IMSTEM-0016184 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Incomplete Document (FRE 106). |
| LY | E-mail from E. Kimbrel to X. Wang re EAE ips | 8/23/2013 | IMSTEM-0017245 | IMSTEM-0017246 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Incomplete Document (FRE 106). |
| LZ | E-mail from E. Kimbrel to X. Wang re Greg to Deliver Cells | 8/21/2013 | IMSTEM-0018003 | IMSTEM-0018005 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| MA | E-mail from S. Lu to X. Wang and E. Kimbrel re iPSC-MSC in EAE | 8/8/2013 | IMSTEM-0018023 | IMSTEM-0018023 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| MB | E-mail from X. Wang to E. Kimbrel re next expt? | 7/24/2013 | IMSTEM-0019454 | IMSTEM-0019456 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| MC | E-mail from E. Kimbrel to X. Wang re update | 2/15/2011 | IMSTEM-0021740 | IMSTEM-0021741 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| MD | E-mail from G. Yavanian to E. Kimbrel and X. Wang re Cell delivery to UConn tomorrow | 8/2/2013 | IMSTEM-0021742 | IMSTEM-0021743 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| ME | E-mail from X. Wang to A. Lazorchak FW Preliminary Application for CBIF fund by ImStem Biotechnology 2014 Feb attaching Attachment I: Cover Page CBIF 2014 Q1 | 3/17/2014 | IMSTEM-0024194 | IMSTEM-0024262 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| MF | E-mail from X. Wang to E. Smith re FW: 2012-CT-SEED-Grant-Xiaofang Wang attaching grant application | 1/13/2012 | IMSTEM-0040175 | IMSTEM-0040207 | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403). |
| MG | Defendant Ren-He Xu's Responses to Astellas' second set of Interrogatories (22-30) | 7/16/2019 | | | | | Hearsay. |
| MH | Defendants' Objections and Responses to Astellas' Fourth Set of Interrogatories (36) | 10/11/2019 | | | | | Hearsay. |
| MI | Defendants' Objections and Responses to Astellas' Third Set of Interrogatories (31-35) | 10/15/2019 | | | | | Hearsay. |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|------------|-------------|-------------|----------------|-----------------|--|
| MJ | Defendants Xiaofang Wang and ImStem's Responses to Astellas's second set of Interrogatories (22-30) | 7/16/2019 | | | | | Hearsay. |
| MK | Excerpt of U.S. Patent Application No. 15/656,473 | 7/21/2017 | | | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Incomplete Document (FRE 106); For reasons stated in Defendants' Motion in Limine re other patent. |
| ML | ACT Financial Statements (native Excel) | 12/31/2006 | SCRMI015916 | SCRMI015916 | | R, P, H, LF, LK | |
| MM | FRE 1006 Summary of ImStem's tax returns | | | | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403) |
| MN | FRE 1006 Summary of Investments in ImStem | | | | | | Hearsay; Demonstrative--not a proper FRE 1006 exhibit; Not Voluminous (FRE 1006); Not Evidence. |
| MO | FRE 1006 Summary of R&D documents and email exchanges supporting time lines | | | | | | Hearsay; Demonstrative--not a proper FRE 1006 exhibit; Not Voluminous (FRE 1006); Not Evidence. |
| MP | FRE 1006 Summary of research papers | | | | | | Hearsay; Demonstrative--not a proper FRE 1006 exhibit; Not Voluminous (FRE 1006); Not Evidence. |
| MQ | FRE 1006 Summary of research papers | | | | | | Hearsay; Demonstrative--not a proper FRE 1006 exhibit; Not Voluminous (FRE 1006); Not Evidence. |
| MR | FRE 1006 Summary of research papers | | | | | | Hearsay; Demonstrative--not a proper FRE 1006 exhibit; Not Voluminous (FRE 1006); Not Evidence. |
| MS | FRE 1006 Summary of research papers | | | | | | Hearsay; Demonstrative--not a proper FRE 1006 exhibit; Not Voluminous (FRE 1006); Not Evidence. |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|------------|----------------|----------------|----------------|-------------------------|--|
| MT | Tysabri 2004 Label | 11/1/2004 | | | | | Relevance (FRE 401-402); Prejudice, Confusion, Waste of Time, Cumulative (FRE 403); Hearsay. |
| MU | Excerpt of Wang lab notebook--various pages Oct 2010 to Jan 2011 | 10/14/2010 | IMSTEM-0020231 | IMSTEM-0020237 | | R, P, H, I, IO, LF, LK | |
| MV | Email from Vincent to Xu et al. re Inquiry from UConn | 6/8/2012 | AIRM00018183 | AIRM00018186 | | R, P, H, LF, LK | |
| MW | Email from Lanza to Vincent, Heffernan re What rights do we have... | 6/5/2014 | AIRM00146960 | AIRM00146962 | | R, H, P, LF, DU | |
| MX | Article: Galat, et al. <i>Cytokine-free directed differentiation of human pluripotent stem cells efficiently produces hemogenic endothelium with lymphoid potential</i> , Stem Cell Research & Therapy | 3/17/2017 | AIRM00002025 | AIRM00002035 | | R, H, IO, P | |
| MY | Regenerative Medicine Labs Quarterly Report 1Q2Q FY 2016 | 9/7/2016 | AIRM00005281 | AIRM00005285 | | R, P, LK, LF, A | |
| MZ | Draft Material Transfer Agreement | 5/26/2017 | AIRM00011314 | AIRM00011322 | | R, P, LF, A, H, DE | |
| NA | Material Transfer Agreement--unexecuted | 7/1/2017 | AIRM00012283 | AIRM00012291 | | R, P, LF, A, H, DE | |
| NB | Email from Wang to Kimbrel re hi | 7/29/2010 | AIRM00013861 | AIRM00013862 | | R, P, H, IO, LF, LK | |
| NC | Lu, et al. "Therapeutic Applications of Human Embryonic Stem Cells," Chapter for <i>Human Stem Cell Technology and Biology: A Research Guide and Laboratory Manual</i> (Wiley & Sons, Inc.). Edited by Browski et al. | | AIRM00013883 | AIRM00013902 | | R, IO, P, H | |
| ND | Email from Lu to Kimbrel re preliminary data, attachment | 12/13/2010 | AIRM00014594 | AIRM00014596 | | R, P, H, DE, IO, LF, LK | |
| NE | Email from Xu to Lu, Kimbrel re CT proposal, attachment | 12/29/2010 | AIRM00014656 | AIRM00014672 | | R, P, H, IO, LF, LK | |
| NF | Email from Marusic to Kimbrel re contract research? | 4/10/2012 | AIRM00016953 | AIRM00016956 | | R, P, H, LF, LK | |
| NG | Email from Kouris to Kimbrel re Hooke Lab - EAE | 5/23/2012 | AIRM00017645 | AIRM00017645 | | R, P, H, LF, LK | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|-----------|--------------|--------------|----------------|---|------------|
| NH | Email from Lu to Kimbrel re Wound healing budget.pdf; attachment redacted | 6/4/2012 | AIRM00017978 | AIRM00017983 | | R, P, H, LF, LK | |
| NI | Email from McCabe to Kimbrel re GOIs | 8/7/2012 | AIRM00021061 | AIRM00021062 | | R, P, H, LF, LK | |
| NJ | Email from McCabe to Kimbrel re a few other candidates | 9/13/2012 | AIRM00022388 | AIRM00022389 | | R, P, H, LF, LK | |
| NK | Article: Avni, et al. <i>Th Cell differentiation is accompanied by dynamic changes in histone acetylation of cytokine genes</i> | 6/10/2002 | AIRM00027458 | AIRM00027466 | | R, H, IO, P | |
| NL | Hoffman email to Kimbrel re EAE stats | 5/22/2013 | AIRM00029217 | AIRM00029224 | | R, P, H, LF, LK | |
| NM | Email from Vincent to Kimbrel et al. re keep eye on UConn patent pending | 6/28/2013 | AIRM00031180 | AIRM00031180 | | R, P, LK, LF, I, H | |
| NN | Email from Vincent to Kimbrel; withheld as privileged--attaching PCT doc | 1/31/2014 | AIRM00036567 | AIRM00036670 | | R, H, P | |
| NO | Metadata concerning email from Fleischel to Kimbrel, withheld as privileged (Ex 24) | 2/21/2014 | AIRM00037250 | AIRM00037250 | | AC, A, BE, H, LA, LF, LK, MIL, NP, P, R | |
| NP | Email from Joste to Vincent, Kimbrel re Ocata - MSC Program - Jan 2015 - ver5.pptx, attachment | 2/2/2015 | AIRM00043189 | AIRM00043235 | | R, P, LK, LF, H | |
| NQ | Email from Vincent to Kimbrel, Lanza re IMSTEM patent application, with link | 7/29/2015 | AIRM00044863 | AIRM00044865 | | R, P, LK, LF, I, H | |
| NR | Email from Vincent to Kimbrel, Lanza re The original provisional application they filed; attachment | 7/29/2015 | AIRM00044866 | AIRM00044897 | | R, P, LK, LF, H | |
| NS | Email from Kimbrel to Lu re use of irradiated MSCs | 8/11/2011 | AIRM00049403 | AIRM00049403 | | R, P, H, LF, LK | |
| NT | Email from Kimbrel to Lanza re MSCs and glaucoma paper | 9/13/2011 | AIRM00049689 | AIRM00049689 | | R, P, H, LF, LK | |
| NU | Email from Kimbrel to McCabe re GOIs [genes of interest] (attachments) | 8/7/2012 | AIRM00051594 | AIRM00051613 | | R, P, H, LF, LK | |
| NV | Email from Kimbrel to McCabe re a few other candidates; attachment | 9/13/2012 | AIRM00052016 | AIRM00052023 | | R, P, H, LF, LK | |

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|-----------------|---|------------|--------------|--------------|----------------|---------------------|------------|
| NW | Email from Kimbrel to Vincent and Fleishell re keep eye on UCconn patent pending | 6/28/2013 | AIRM00056802 | AIRM00056802 | | R, P, LK, LF, H | |
| NX | Email from Kimbrel to Chu and Lu re Good call | 7/10/2012 | AIRM00070617 | AIRM00070617 | | R, P, H, LF, LK | |
| NY | Non-Exclusive License and Supply Agreement | 3/16/2015 | AIRM00075954 | AIRM00075972 | | R, P, LK, LF, H, DE | |
| NZ | Email from Kimbrel to Vincent et al. re version 12!; attachment | 2/19/2015 | AIRM00080065 | AIRM00080111 | | R, P, LK, LF, H | |
| OA | Email from Staton to Jooste et al. re Ocata - MSC NewCo Presentation; attachment | 2/6/2015 | AIRM00080285 | AIRM00080332 | | R, P, H, LK, LF | |
| OB | Email from Jooste to Wotton re interview? | 11/5/2014 | AIRM00080386 | AIRM00080387 | | R, P, H, LK, LF | |
| OC | Material Transfer Agreement | 1/30/2015 | AIRM00081066 | AIRM00081073 | | R, P, LK, LF, DE, H | |
| OD | Sponsored Research Agreement; BWH Agreement No. 2016D003560 | 8/15/2016 | AIRM00087311 | AIRM00087333 | | R, P, LF, H | |
| OE | Term Sheet - SCRMI, CHA Bio and ACT | 5/23/2011 | AIRM00088288 | AIRM00088292 | | R, P, H, LF, LK | |
| OF | Email from Lu to Lanza re UConn collaborators' new company | 5/21/2013 | AIRM00093163 | AIRM00093163 | | R, P, H, LF, LK | |
| OG | Email from Vincent to Heffernan re What rights do we have... | 6/5/2014 | AIRM00097111 | AIRM00097113 | | R, H, P, LF, LK | |
| OH | Email from Heffernan to Vincent re What rights do we have... | 6/5/2014 | AIRM00097114 | AIRM00097116 | | R, H, P, LK, LF | |
| OI | Email from Wotton to Myles et al re ACT_Strategic Planning Kick-off_September 11 2014_MEETING OUTPUTS.pptx; attachment | 9/15/2014 | AIRM00097512 | AIRM00097544 | | R, P, H, LK, LF, DE | |
| OJ | Email from Lanza to Wotton et al re SPARK's gene therapy has limitations - only works for a couple of years...../my two cents | 5/4/2015 | AIRM00129472 | AIRM00129475 | | R, P, LK, LF, H | |
| OK | Email from Vincent to Lanza et al re Another potential piece of the mechanism (and potential value) | 2/18/2015 | AIRM00138446 | AIRM00138446 | | R, P, LK, LF, H | |
| OL | Email from Kwon to Jooste, Epstein re Next steps; attaching MTS Strategic Advisory Engagement Letter | 11/25/2014 | AIRM00138823 | AIRM00138830 | | R, P, H, LK, LF | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|--------------|--------------|----------------|---------------------|------------|
| OM | Email from Vincent to Heffernan re What rights do we have... | 6/5/2014 | AIRM00139272 | AIRM00139276 | | R, H, P, LK, LF | |
| ON | Sponsored Research Agreement | 10/1/2013 | AIRM00141867 | AIRM00141878 | | R, P, LF, A, H | |
| OO | 321 Non-provisional application | 11/30/2012 | AIRM00142583 | AIRM00142738 | | A, DE, H, LF, LK | |
| OP | Email from Lanza to Karunaratne re Astellas visit; attachment | 5/13/2015 | AIRM00145473 | AIRM00145500 | | R, P, LK, LF, H | |
| OQ | Material Transfer Agreement | 3/28/2006 | AIRM00151415 | AIRM00151420 | | R, P, H, LK, LF, DE | |
| OR | Email from Lu to Lanza re Completely inappropriate | 11/9/2011 | AIRM00151661 | AIRM00151663 | | R, P, H, LF, LK | |
| OS | MSC Program 2012 Summary and 2013 Goals | | AIRM00152299 | AIRM00152301 | | R, P, H | |
| OT | U.S. Patent No. 7,615,374 | 11/10/2009 | AIRM00170011 | AIRM00170016 | | R, H, P, LF | |
| OU | Kimbrel's PowerPoint slides for lab meeting "hESC-MSCs versus BM-MSCs" | 4/6/2012 | AIRM00180396 | AIRM00180416 | | H, LF, LK | |
| OV | PowerPoint slides - ACT Corporate Objectives Overview 2014 | 10/23/2013 | AIRM00181158 | AIRM00181160 | | R, P, LK, LF, H | |
| OW | Draft proposal language; filename: CT proposal_rx_122910.EKedits.docx | 12/29/2010 | AIRM00181498 | AIRM00181513 | | R, P, H, IO, LF, LK | |
| OX | SCRMI Executive Scientific Progress Report submitted by John Lu | 9/1/2010 | AIRM00182090 | AIRM00182126 | | R, P, H, LF, LK | |
| OY | PowerPoint slides - Ocata Therapeutics Private Placement Offering | 2/5/2015 | AIRM00198347 | AIRM00198393 | | R, P, LK, LF, H | |
| OZ | PowerPoint slides - Ocata Therapeutics Mesenchymal Stem Cell Program | 1/9/2015 | AIRM00198397 | AIRM00198425 | | R, P, LK, LF, H | |
| PA | Form 10-K Advanced Cell Technologies for fiscal year end 12/31/2008 | 12/31/2008 | AIRM00205794 | AIRM00205933 | | R, P, LF, H | |
| PB | Form 10-K Advanced Cell Technologies for fiscal year end 12/31/2010 | 12/31/2010 | AIRM00206257 | AIRM00206393 | | R, P, LF | |
| PC | Form 10-K Advanced Cell Technologies for fiscal year end 12/31/2011 | 12/31/2011 | AIRM00206394 | AIRM00206511 | | R, P, LF | |
| PD | Form 10-K Advanced Cell Technologies for fiscal year end 12/31/2013 | 12/31/2013 | AIRM00206802 | AIRM00207084 | | R, P, LF | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|------------|--------------|--------------|----------------|----------------------|------------|
| PE | Article: Slukvin. Deciphering the hierarchy of angiohematopoietic progenitors from human pluripotent stem cells. | 3/1/2013 | AIRM00218595 | AIRM00218602 | | R, P, H, IO | |
| PF | Research Services Agreement | 5/20/2013 | AIRM00220925 | AIRM00220939 | | R, P, H, LF, LK | |
| PG | Email from Mary Fleishell to John Lu; withheld as privileged--attaching WO 2014/011407 | 2/21/2014 | AIRM00226256 | AIRM00226393 | | R, P, LK, LF, MIL, H | |
| PH | Email from Wang to Kimbrel re MSC in EAE study | 11/5/2012 | AIRM00229849 | AIRM00229853 | | R, P, H, IO, LF, LK | |
| PI | Email from Cole to Lu re 2015 Regenerative Medicine and Stem cell based Cell therapies-Drugs of the Future Offering Hope for Cure | 2/6/2015 | AIRM00239520 | AIRM00239522 | | R, H, P, LK, LF | |
| PJ | Kimbrel lab notebook | 9/21/2010 | AIRM00249013 | AIRM00249126 | | LF, LK | |
| PK | Kouris Lab notebook No. ACT A184 | 11/8/2012 | AIRM00250490 | AIRM00250690 | | R, P, H, LF, LK | |
| PL | Kouris Lab notebook No. ACT A196 | 8/23/2013 | AIRM00250691 | AIRM00250896 | | R, P, H, LK, LF | |
| PM | Kimbrel Lab notebook excerpt | 8/6/2015 | AIRM00262972 | AIRM00262977 | | R, P, LK, LF, H | |
| PN | Kimbrel Lab notebook No. 191 | 4/1/2013 | AIRM00262978 | AIRM00263023 | | H, LF, LK | |
| PO | Lu lab notebook No. A149 | 12/29/2008 | AIRM00263376 | AIRM00263434 | | R, P, LK, LF, H | |
| PP | Lu lab notebook No. 159 | 7/18/2011 | AIRM00263435 | AIRM00263483 | | R, P, H, LF, LK | |
| PQ | Email from Vincent to Kimbrel re Ocata - MSC Program - Jan 2015 - ver4.pptx; attachment | 1/29/2015 | AIRM00265030 | AIRM00265082 | | R, P, LK, LF | |
| PR | MSC program/NewCo budget by year... | 12/18/2014 | AIRM00265840 | AIRM00265842 | | R, P, LK, LF, H | |
| PS | Email from Heffernan to Vincent re What rights do we have... | 6/5/2014 | AIRM00269176 | AIRM00269179 | | R, H, P, LF, LK, H | |
| PT | Email from Vincent to Lu re UConn collaborators' new company | 5/28/2013 | AIRM00270779 | AIRM00270780 | | R, P, H, DU, LF, LK | |
| PU | Email from Jooste to Kimbrel et al re HMC Private Placement Presentation; attached Ocata - MSC Program - 23 Feb 2015 - final version 15.pdf | 2/23/2015 | AIRM00275265 | AIRM00275311 | | R, P, LK, LF, H | |
| PV | Email from Kimbrel to Singh re Matt's deck ; attached Ocata - MSC Program - Jan 2015 - ver4.pptx | 1/30/2015 | AIRM00276228 | AIRM00276281 | | R, P, LK, LF, H | |
| PW | Lu lab notebook No. 097 | 4/14/2005 | AIRM00282824 | AIRM00283020 | | R, H, LF, LK | |

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|-----------------|--|------------|----------------|----------------|----------------|-----------------------------|------------|
| PX | Exclusive License Agreement | 11/30/2008 | AIRM00296500 | AIRM00296553 | | R, P, LF, DE, H | |
| PY | Allied Cell Technologies, Inc., Common Stock Purchase Agreement | 11/30/2008 | AIRM00296554 | AIRM00296564 | | R, P, LF, H | |
| PZ | Shareholder Agreement | 11/30/2008 | AIRM00296572 | AIRM00296587 | | R, P, LF, H, DE | |
| QA | Sublicense Agreement | 11/30/2008 | AIRM00296588 | AIRM00296615 | | R, P, LF, H, DE | |
| QB | English translation of business plan (see IMSTEM-0045934-956) "Expansion Plan of Weixin Biological Stem Cell Co., Ltd." | 2009 | AIRM00297298 | AIRM00297320 | | H, I, LA, LF, LK | |
| QC | English translation of business plan (see IMSTEM-0045917-933) "Weixin Biological Stem Cell Co., Inc." | 2009 | AIRM00297321 | AIRM00297337 | | H, I, LA, LF, LK | |
| QD | ACT 2014 W2 data | 1/1/2015 | AIRM00297581 | AIRM00297630 | | R, P, LK, LF, H | |
| QE | Press release (English/Korean) re CHA Biotech completes 50 billion-KRW deal with Astellas... | 4/25/2019 | AIRM00297781 | AIRM00297782 | | R, H, P, LK, LF, A | |
| QF | PowerPoint slides, Project Laurel - Proposal for Binding Offer | 10/16/2015 | AIRM00298228 | AIRM00298299 | | R, P, LK, LF, H, FL | |
| QG | Email from Wang to Kimbrel re hi collaboration | 11/22/2010 | IMSTEM-0000001 | IMSTEM-0000001 | | H, IO, LF, LK | |
| QH | Email from Wang to Kimbrel re urgent...need graph as is... (PDF of native attachment, 2 pp) | 12/9/2010 | IMSTEM-0000002 | IMSTEM-0000003 | | R, P, H, IO, LF, LK | |
| QI | Article: Maynard-Smith, et al. <i>Directed Approach for Engineering Conditional Protein Stability Using Biologically Silent Small Molecules</i> | 8/24/2007 | IMSTEM-0000932 | IMSTEM-0000938 | | R, H, IO, P | |
| QJ | Article: Banasynski, et al. <i>Chemical control of protein stability and function in living mice</i> | Oct-08 | IMSTEM-0000939 | IMSTEM-0000943 | | R, H, IO, P | |
| QK | Article: Mohtashami, et al. <i>Direct Comparison of DIII and DII4 Mediated Notch Activation Levels Show Differential Lymphomyeloid Lineage Commitment Outcomes</i> | Jun-10 | IMSTEM-0000971 | IMSTEM-0000981 | | R, P, H, IO | |
| QL | Article: Stem Cell Assays Blog: <i>How to assess the probability of carcinogens in cell therapy</i> | 7/19/2010 | IMSTEM-0001060 | IMSTEM-0001062 | | R, P, H, IO, A, DE, LF, LK, | |

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|-----------------|---|------------|----------------|----------------|----------------|---------------------|------------|
| QM | Article: In Sequence. <i>NimbleGen Array Capture Outperforms Two Target-Enrichment Methods in ABRF Research Group Comparison</i> | 4/6/2010 | IMSTEM-0001278 | IMSTEM-0001279 | | R, P, H, IO | |
| QN | Article: Goto, et al. <i>Chronic Neutrophilic Leukemia with Congenital Robertsonian Translocation Successfully Treated with Allogeneic Bone Marrow Transplantation in a Young Man</i> | 2009 | IMSTEM-0001309 | IMSTEM-0001313 | | R, H, IO, P | |
| QO | Email from Xu to Wang re RO1; attachment | 12/28/2010 | IMSTEM-0002095 | IMSTEM-0002104 | | R, P, H, IO, LF, LK | |
| QP | Email from Xu to Kimbrel re data and info for grants | 12/23/2010 | IMSTEM-0002154 | IMSTEM-0002156 | | R, P, H, IO, LF, LK | |
| QQ | Email from Xu to Wang re Proposal; attachment | 12/21/2010 | IMSTEM-0002175 | IMSTEM-0002183 | | R, P, H, IO, LF, LK | |
| QR | Email from Xu to Kimbrel data and info for grants | 12/18/2010 | IMSTEM-0002194 | IMSTEM-0002195 | | R, P, H, IO, LF, LK | |
| QS | Article: Lindsey, et al. <i>Cyclic stretch decreases TRPC4 protein and capacitative calcium entry in rat vascular smooth muscle cells</i> | 4/22/2008 | IMSTEM-0002445 | IMSTEM-0002450 | | R, H, IO, P | |
| QT | Article: Vo, et al. <i>Smooth-Muscle-Like Cells Derived from Human Embryonic Stem Cells Support and Augment Cord-Like Structures in Vitro</i> | 4/28/2010 | IMSTEM-0002672 | IMSTEM-0002682 | | R, P, H, IO | |
| QU | Email from Xu to Wang re order antibody | 1/19/2011 | IMSTEM-0003148 | IMSTEM-0003148 | | R, P, H, IO, LF, LK | |
| QV | Article: Gong, et al. <i>Direct and Progressive Differentiation of Human Embryonic Stem Cells Into the Chondrogenic Lineage</i> | 2010 | IMSTEM-0003153 | IMSTEM-0003160 | | R, P, H, IO | |
| QW | Email from Xu to Wang forwarding draft 2011 grant and attachments | 1/4/2011 | IMSTEM-0003252 | IMSTEM-0003254 | | R, P, H, IO, LF, LK | |
| QX | Article: Ashokan, et al. <i>A molecular receptor targeted, hydroxyapatite nanocrystal based multi-modal contrast agent</i> | 2009 | IMSTEM-0003408 | IMSTEM-0003418 | | R, H, IO, P | |

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|-----------------|--|------------|----------------|----------------|----------------|-----------------|------------|
| QY | Article: Yu, et al. <i>Efficient Feeder-Free Episomal Reprogramming with Small Molecules</i> | Mar-11 | IMSTEM-0003881 | IMSTEM-0003890 | | R, P, H, IO | |
| QZ | Article: Aharonowiz, et al. <i>Neuroprotective Effect of Transplanted Human Embryonic Stem Cell-Derived Neural Precursors in an Animal Model of Multiple Sclerosis</i> | Sep-08 | IMSTEM-0003969 | IMSTEM-0003978 | | R, H, IO, P | |
| RA | Article: Chen, et al. <i>Fibulin-4 regulates expression of the tropoelastin gene and consequent elastic-fibre formation by human fibroblasts</i> | 2009 | IMSTEM-0004402 | IMSTEM-0004413 | | R, H, IO, P | |
| RB | Article: Aoyama, et al. <i>Quantitative Differences in Biosynthesis and Extracellular Deposition of Fibrillin in Cultured Fibroblasts Distinguish Five Groups of Marfan Syndrome Patients and Suggest Distinct Pathogenetic Mechanisms</i> | Jul-94 | IMSTEM-0004655 | IMSTEM-0004662 | | R, H, IO, P | |
| RC | Email from Xu to Kimbrel, Lu re in vivo MSC collaboration | 11/30/2011 | IMSTEM-0004668 | IMSTEM-0004671 | | R, P, H, LF, LK | |
| RD | Article: Zambidis, et al. <i>Expression of angiotensin-converting enzyme identifies and regulates primitive hemangioblasts derived from human pluripotent stem cells</i> | Aug-06 | IMSTEM-0004896 | IMSTEM-0004910 | | R, H, IO, P | |
| RE | Article: Jung, et al. <i>Concise review: Induced Pluripotent Stem Cell-Derived Mesenchymal Stem Cells: Progress Toward Safe Clinical Products</i> | 8/16/2011 | IMSTEM-0004912 | IMSTEM-0004917 | | R, P, H, IO | |
| RF | Email from Vincent to Gallo, Lu re UConn Health Center MTA | 1/27/2012 | IMSTEM-0004968 | IMSTEM-0004969 | | R, P, H, LF, LK | |
| RG | Email from Xu to Gallo re looking forward to 2012 experiments | 1/26/2012 | IMSTEM-0004978 | IMSTEM-0004981 | | R, P, H, LF, LK | |
| RH | Email from Gallo to Xu re looking forward to 2012 experiments; attachment | 1/26/2012 | IMSTEM-0004982 | IMSTEM-0004991 | | R, P, H, LF, LK | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|-----------|----------------|----------------|----------------|------------------------|------------|
| RI | Article: Martins-Taylor, et al. <i>Genomic Stability of Human Induced Pluripotent Stem Cells</i> | 8/5/2011 | IMSTEM-0005209 | IMSTEM-0005214 | | R, P, H, IO | |
| RJ | Email from Xu to Wang re how'd it go? | 3/26/2012 | IMSTEM-0005268 | IMSTEM-0005270 | | R, P, H, IO, LF, LK | |
| RK | Article: Ranganath, et al. <i>Harnessing the Mesenchymal Stem Cell Secretome for the Treatment of Cardiovascular Disease</i> | 3/2/2012 | IMSTEM-0005272 | IMSTEM-0005286 | | R, P, H, IO | |
| RL | Article: Hockemeyer, et al. <i>Efficient targeting of expressed and silent genes in human ESCs and iPSCs using zinc-finger nucleases</i> | Sep-09 | IMSTEM-0005374 | IMSTEM-0005382 | | R, H, IO, P | |
| RM | Article: Pomper, et al. <i>Serial imaging of human embryonic stem-cell engraftment and teratoma formation in live mouse models</i> | Mar-09 | IMSTEM-0005522 | IMSTEM-0005531 | | R, H, IO, P | |
| RN | Article: Parekkadan, et al. <i>Mesenchymal Stem Cell-Derived Molecules Reverse Fulminant Hepatic Failure</i> | Sep-07 | IMSTEM-0005788 | IMSTEM-0005793 | | R, H, IO, P | |
| RO | Email from Xu to Wang re MSC selected genes, attached native spreadsheet | 9/2/2012 | IMSTEM-0005922 | IMSTEM-0005923 | | R, P, H, I, IO, LF, LK | |
| RP | Email from Kimbrel to Xu et al re ISCCR abstract | 1/31/2013 | IMSTEM-0006185 | IMSTEM-0006186 | | R, P, H, LF, LK | |
| RQ | Email from Xu to Kimbrel et al re ISCCR abstract; attachment | 1/31/2013 | IMSTEM-0006187 | IMSTEM-0006188 | | R, P, H, IO, LF, LK | |
| RR | Email from Kimbrel to Wang and Xu re EAE manuscript | 3/15/2013 | IMSTEM-0006586 | IMSTEM-0006589 | | R, P, H, LF, LK | |
| RS | Article: Wang, et al. <i>Human iPSC-Derived Oligodendrocyte Progenitor Cells can Myelinate and Rescue a Mouse Model of Congenital Hypomyelination</i> | 2/7/2013 | IMSTEM-0006899 | IMSTEM-0006911 | | R, P, H, IO | |
| RT | Article: Kimura, et al. <i>Invivo dynamics of human cord blood-derived CD34 SCID-repopulating cells using intra-bone marrow injection</i> | 2009 | IMSTEM-0007877 | IMSTEM-0007883 | | R, H, IO, P | |

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|-----------------|--|------------|----------------|----------------|----------------|---------------------|------------|
| RU | Email from Wang to Xu re EAE model and experiments | 2/22/2012 | IMSTEM-0008868 | IMSTEM-0008868 | | R, P, H, LF, LK | |
| RV | Email from Wang to Xu re abstract | 8/21/2012 | IMSTEM-0009031 | IMSTEM-0009031 | | R, P, H, IO, LF, LK | |
| RW | Wang PowerPoint slides "Using hES-MSCs to treat Multiple Sclerosis (sic) animal model (EAE)" (PDF of native original, 37pp) | 8/17/2012 | IMSTEM-0009033 | IMSTEM-0009033 | | R, P, H, IO, LF, LK | |
| RX | Email from Wang to Xu re IL-6 review nice and complete | 8/22/2012 | IMSTEM-0009562 | IMSTEM-0009589 | | H, LA, LF, LK, IO, | |
| RY | Email from Wang to Kimbrel re IL12a expression | 4/1/2013 | IMSTEM-0009891 | IMSTEM-0009895 | | R, P, H, IO, LF, LK | |
| RZ | Patent Application WO 2013/082543 A1 | 6/6/2013 | IMSTEM-0011122 | IMSTEM-0011271 | | H, LF, LK | |
| SA | Article: Ding, et al. <i>FGF-2 Modulates Wnt Signaling in Undifferentiated hESC and iPS Cells Through Activated PI3-K/GSK3 Signaling</i> | 2010 | IMSTEM-0011281 | IMSTEM-0011292 | | R, P, H, IO | |
| SB | Article: Meijer, et al. <i>GSK-3 Selective Inhibitors Derived from Tyrian Purple Indirubins</i> | 12/15/2013 | IMSTEM-0011301 | IMSTEM-0011312 | | R, H, IO, P | |
| SC | Article: Grimes, et al. <i>The multifaceted roles of glycogen synthase kinase 3 in cellular signaling</i> | 6/4/2001 | IMSTEM-0011313 | IMSTEM-0011348 | | R, H, IO, P | |
| SD | Article: Sineva, et al. <i>Inhibition of GSK3 enhances both adhesive and signaling activities of B-catenin in mouse embryonic stem cells</i> | 2010 | IMSTEM-0011349 | IMSTEM-0011364 | | R, P, H, IO | |
| SE | Article: James, et al. <i>Expansion and maintenance of human embryonic stem cell-derived endothelial cells by TGFB inhibition is Id1 development</i> | Feb-10 | IMSTEM-0011365 | IMSTEM-0011371 | | R, P, H, IO | |
| SF | Article: Meijer, et al. <i>Pharmacological inhibitors of glycogen synthase kinase 3</i> | 7/29/2004 | IMSTEM-0011372 | IMSTEM-0011381 | | R, H, IO, P | |

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|-----------------|---|-----------|----------------|----------------|----------------|---------------|------------|
| SG | Article: Graham, et al. <i>GSK-3 Represses Growth Factor-inducible Genes by Inhibiting NF-B in Quiescent Cells</i> | 2/12/2010 | IMSTEM-0011382 | IMSTEM-0011390 | | R, P, H, IO | |
| SH | Article: Tsutsui, et al. <i>An optimized small molecule inhibitor cocktail supports long-term maintenance of human embryonic stem cells</i> | 6/14/2010 | IMSTEM-0011396 | IMSTEM-0011403 | | R, P, H, IO | |
| SI | Email from Kimbrel to Wang re hi collaboration | 8/4/2010 | IMSTEM-0011865 | IMSTEM-0011868 | | H, IO, LF, LK | |
| SJ | Article: Chang, et al. <i>The Kinases MEKK2 and MEKK3 Regulate Transforming Growth Factor-Mediated Helper T Cell Differentiation</i> | 2/25/2011 | IMSTEM-0011878 | IMSTEM-0011900 | | R, P, H, IO | |
| SK | Article: Marusic, et al. <i>Cytosolic phospholipase A-deficient mice are resistant to experimental autoimmune encephalomyelitis</i> | 9/19/2005 | IMSTEM-0011948 | IMSTEM-0011958 | | R, H, IO, P | |
| SL | Article: Karussis, et al. <i>Immunomodulation and neuroprotection with mesenchymal bone marrow stem cells a proposed treatment for multiple sclerosis and other neuroimmunological/neurodegenerative diseases</i> | 7/3/2007 | IMSTEM-0011959 | IMSTEM-0011963 | | R, H, IO, P | |
| SM | Article: Yen, et al. <i>Human Embryonic Stem Cell-Derived Mesenchymal Progenitors Possess Strong Immunosuppressive Effects Toward Natural Killer Cells as Well as T Lymphocytes</i> | 11/6/2008 | IMSTEM-0011964 | IMSTEM-0011969 | | R, H, IO, P | |
| SN | Article: Arpommaeklong, et al. <i>Phenotypic Characterization, Osteoblastic Differentiation and Bone Regeneration Capacity of Human Embryonic Stem Cell-derived Mesenchymal Stem Cells</i> | Sep-09 | IMSTEM-0011990 | IMSTEM-0012017 | | R, H, IO, P | |

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|-----------------|--|------------|----------------|----------------|----------------|-------------|------------|
| SO | Article: Ghoresch, et al. <i>Generation of pathogenic TH17 cells in the absence of TGF- signaling</i> | 10/21/2010 | IMSTEM-0012025 | IMSTEM-0012030 | | R, P, H, IO | |
| SP | Article: Rafei, et al. <i>Mesenchymal Stromal Cells Ameliorate Experimental Autoimmune Encephalomyelitis by Inhibiting CD4 Th17 T Cells in a CC Chemokine Ligand 2-Dependent Manner</i> | 2009 | IMSTEM-0012196 | IMSTEM-0012204 | | R, H, IO, P | |
| SQ | Article: Gljebels, et al. <i>Administration of Neutralizing Antibodies to Interleukin-6 IL6 Reduces Experimental Autoimmune Encephalomyelitis and is Associated with Elevated Levels of IL-6 Bioactivity in Central Nervous System and Circulation</i> | Nov-95 | IMSTEM-0012223 | IMSTEM-0012233 | | R, H, IO, P | |
| SR | Article: Morando, et al. <i>The therapeutic effect of mesenchymal stem cell transplantation in experimental autoimmune encephalomyelitis is mediated by peripheral and central mechanisms</i> | 2012 | IMSTEM-0012259 | IMSTEM-0012265 | | R, P, H, IO | |
| SS | Article: Duffy, et al. <i>Mesenchymal stem cell effects on T-cell effector pathways</i> | 2011 | IMSTEM-0012267 | IMSTEM-0012275 | | R, P, H, IO | |
| ST | Article: Ghannami, et al. <i>Immunosuppression by mesenchymal stem cells: mechanisms and clinical applications</i> | 2010 | IMSTEM-0012284 | IMSTEM-0012290 | | R, P, H, IO | |
| SU | Article: Carrion, et al. <i>Opposing effect of mesenchymal stem cells on Th1 and Th17 cell polarization according to the state of CD4 T cell activation</i> | 10/1/2010 | IMSTEM-0012524 | IMSTEM-0012530 | | R, P, H, IO | |
| SV | Article: Darlington, et al. <i>Reciprocal Th1 and Th17 Regulation by Mesenchymal Stem Cells: Implication for Multiple Sclerosis</i> | | IMSTEM-0012531 | IMSTEM-0012536 | | R, H, IO, P | |

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|-----------------|---|-----------|----------------|----------------|----------------|-----------------|------------|
| SW | Article: Ra, et al. <i>Safety of Intravenous Infusion of Human Adipose Tissue-Derived Mesenchymal Stem Cells in Animals and Humans</i> | 11/8/2011 | IMSTEM-0015559 | IMSTEM-0015571 | | R, P, H, IO | |
| SX | Email from Kimbrel to Lanza et al. re Cell Stem Cell Editorial Decision... | 3/31/2014 | IMSTEM-0015663 | IMSTEM-0015669 | | R, H, P | |
| SY | Email from Kimbrel to Lanza, Xu re ???!!! | 3/24/2014 | IMSTEM-0015670 | IMSTEM-0015671 | | R, H, P | |
| SZ | Article: Xu, et al. <i>Revealing a core signaling regulatory mechanism for pluripotent stem cell survival and self-renewal by small molecules</i> | 5/4/2010 | IMSTEM-0017235 | IMSTEM-0017240 | | R, P, H, IO | |
| TA | Article: Erb, et al. <i>Endocrine and Epigenetic Control of Trophectoderm Differentiation from Human Embryonic Stem Cells the role of bone morphogenic protein 4 and histone deacetylases</i> | 2009 | IMSTEM-0017248 | IMSTEM-0017300 | | R, P, H, IO | |
| TB | Letter from UCHC Research to Dr. Wang | 10/5/2010 | IMSTEM-0017475 | IMSTEM-0017475 | | R, P, H, LF, LK | |
| TC | Email from Sarnecky (CTInnovations) to Dr. Wang re Congratulations! | 6/10/2010 | IMSTEM-0017476 | IMSTEM-0017477 | | R, P, H, LF, LK | |
| TD | Article: Lister, et al. <i>Hotspots of aberrant epigenomic reprogramming in human induced pluripotent stem cells</i> | 2010 | IMSTEM-0017517 | IMSTEM-0017524 | | R, P, H, IO | |
| TE | Article: Bock, et al. <i>Reference Maps of Human ES and iPS Cell Variation Enable High-Throughput Characterization of Pluripotent Cell Lines</i> | 2/4/2011 | IMSTEM-0017525 | IMSTEM-0017538 | | R, P, H, IO | |
| TF | Article: Jones, et al. <i>Accelerated axon loss in MOG35-55 experimental autoimmune encephalomyelitis (EAE) in myelin-associated glycoprotein-deficient (MAGKO) mice</i> | 4/16/2011 | IMSTEM-0017882 | IMSTEM-0017890 | | R, P, H, IO | |
| TG | Email from Xu to Wand re ACT | 8/12/2013 | IMSTEM-0017993 | IMSTEM-0017993 | | R, H, P | |

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|-----------------|--|------------|----------------|-----------------|----------------|-------------------------|------------|
| TH | Article: Lin, et al. <i>Progresses and Challenges in Optimization of Human Pluripotent Stem Cell Culture</i> | 2010 | IMSTEM-0018053 | IMSTEM-0018053 | | R, P, H, IO | |
| TI | Email from Xu to Gallo, Wang re Patent Decision on Case Number 12-075 | 7/19/2012 | IMSTEM-0018096 | IMSTEM-0018097 | | R, P, H, LF, LK | |
| TJ | Article: Drukker, et al. <i>Isolation of primitive endoderm, mesoderm, vascular endothelial and trophoblast progenitors from human pluripotent stem cells</i> | Jun-12 | IMSTEM-0018100 | IMSTEM-0018113 | | R, P, H, IO | |
| TK | Article: Bernardo, et al. <i>Brachyury and CDX2 Mediate BMP-Induced Differentiation of Human and Mouse Pluripotent Stem Cells into Embryonic and Extraembryonic Lineages</i> | 8/5/2011 | IMSTEM-0018114 | IMSTEM-0018125 | | R, P, H, IO | |
| TL | Article: Yu, et al. <i>FGF2 Sustains NANOG and Switches the Outcome of BMP4 Induced Human Embryonic Stem Cell Differentiation</i> | 3/4/2011 | IMSTEM-0018126 | IMSTEM-0018134 | | R, P, H, I, IO | |
| TM | Email from Xu to Wand , Gall re T-MSC_disclosure_070812; attachment | 7/11/2012 | IMSTEM-0018144 | IMSTEM-0018159 | | R, P, H, DE, IO, LF, LK | |
| TN | Email from Gallo to Wang re Disclosure | 6/8/2012 | IMSTEM-0018161 | IMSTEM-01118162 | | R, P, H, IO, LF, LK | |
| TO | Article: Xu, et al. <i>BMP4 initiates human embryonic stem cell differentiation to trophoblast</i> | 11/11/2002 | IMSTEM-0018780 | IMSTEM-0018783 | | R, H, IO, P | |
| TP | Article: Shen. <i>Nodal signaling: developmental roles and regulation</i> | 6/1/2007 | IMSTEM-0018823 | IMSTEM-0018834 | | R, H, IO, P | |
| TQ | Article: Dahle, et al. <i>Nodal Signaling Recruits the Histone Demethylase Jmjd3 to Counteract Polycomb-Mediated Repression at Target Genes</i> | 6/22/2010 | IMSTEM-0018835 | IMSTEM-0018843 | | R, P, H, IO | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|------------|----------------|----------------|----------------|------------------------|------------|
| TR | Article: Laurent, et al. <i>Comprehensive MicroRNA Profiling Reveals a Unique Human Embryonic Stem Cell Signature Dominated by a Single Seed Sequence</i> | 4/10/2008 | IMSTEM-0018844 | IMSTEM-0018855 | | R, H, IO, P | |
| TS | Article: Vallier, et al. <i>Nodal inhibits differentiation of human embryonic stem cells along the neuroectodermal default pathway</i> | 9/22/2004 | IMSTEM-0018856 | IMSTEM-0018874 | | R, H, IO, P | |
| TT | Wang PowerPoint slides, "High efficiency Differentiation of HSC and MSC from human embryonic stem cells Feeder free and Serum free system" | 4/5/2011 | IMSTEM-0019617 | IMSTEM-0019622 | | R, P, H, I, IO, LF, LK | |
| TU | Article: Lanner, et al. <i>The role of FGF/Erk signaling in pluripotent cells</i> | 2010 | IMSTEM-0019676 | IMSTEM-0019685 | | R, P, H, IO | |
| TV | License Agreement between UCONN and Imstem | 5/2/2013 | IMSTEM-0020238 | IMSTEM-0020259 | | R, P, H, A, LF, LK | |
| TW | Article: Slukvin, et al. <i>The mesenchymoangioblast, mesodermal precursor for mesenchymal and endothelial cells</i> | Jun-18 | IMSTEM-0020608 | IMSTEM-0020621 | | R, P, H, IO | |
| TX | Screenshot from Cell Stem Cell webportal re manuscript in process, "Treating an EAE Model of Multiple Sclerosis..." | 3/4/2014 | IMSTEM-0020763 | IMSTEM-0020763 | | R, H, P, LK, LF | |
| TY | Imstem's Annual Technical Progress Report re Potential Therapy for MS | 9/30/2015 | IMSTEM-0021505 | IMSTEM-0021530 | | R, H, P, IO | |
| TZ | Regenerative Medicine Research Fund (RMRF) Scientific Research Progess Report re 13-SCDIS-ISB-0 | 8/31/2017 | IMSTEM-0021682 | IMSTEM-0021693 | | R, P, LF, LK, H | |
| UA | Email from Xu to Wang re revised aim 3 and Joel's files | 12/25/2012 | IMSTEM-0021744 | IMSTEM-0021765 | | R, P, H, IO, LF, LK | |
| UB | Email from Lu to Xu, Wang re looking forward to 2012 experiments; attachment | 1/20/2012 | IMSTEM-0021767 | IMSTEM-0021775 | | R, P, H, LF, LK | |
| UC | Email from Kimbrel to Wang re looking forward to 2012 experiments | 1/18/2012 | IMSTEM-0021776 | IMSTEM-0021777 | | R, P, H, LF, LK | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|-----------|----------------|----------------|----------------|------------------------|------------|
| UD | Article: Wang, et al. <i>Inhibition of Caspase-mediated Anoikis is critical for Basic Fibroblast Growth Factor-sustained Culture of Human Pluripotent Stem Cells</i> | 12/4/2009 | IMSTEM-0021841 | IMSTEM-0021851 | | R, H, IO, P | |
| UE | Article: Wang, et al. <i>MEKK3 is Essential for Lymphopenia-Induced T Cell Proliferation and Survival</i> | 2009 | IMSTEM-0021852 | IMSTEM-0021863 | | R, P, H, IO | |
| UF | Article: Wang. <i>MEKK3 Regulates IFN Production in T Cells through the Rac1/2-Dependent MAPK Cascades</i> | 5/15/2011 | IMSTEM-0021877 | IMSTEM-0021896 | | R, P, H, IO | |
| UG | Email from Wang to Lazorchak re executive summary; attachment | 7/12/2013 | IMSTEM-0021922 | IMSTEM-0021925 | | R, H, P | |
| UH | Imstem pitch/presentation poster (native doc) | 11/6/2013 | IMSTEM-0022370 | IMSTEM-0022370 | | R, P, H, IO | |
| UI | Briefing Documents for IMS001 pre-pre-IND meeting; Sponsor: Imstem | 3/6/2014 | IMSTEM-0022924 | IMSTEM-0022950 | | R, H, P | |
| UJ | Imstem Executive Summary | 4/3/2014 | IMSTEM-0023977 | IMSTEM-0023979 | | R, H, P | |
| UK | Imstem powerpoint slides re MSC/T-MSC therapy in OA | 4/3/2014 | IMSTEM-0023980 | IMSTEM-0023983 | | R, H, P, IO | |
| UL | Imstem Executive Summary | 4/3/2014 | IMSTEM-0024012 | IMSTEM-0024014 | | H, I, LA, LF, LK | |
| UM | Imstem powerpoint slides re T-MSC technology | 4/2/2014 | IMSTEM-0024018 | IMSTEM-0024043 | | H, I, LA, LF, LK | |
| UN | Email from X. Wang to A. Lazorchak transmitting PowerPoint slides (email and PDF of native attachment, 21pp total) | 3/30/2014 | IMSTEM-0024065 | IMSTEM-0024066 | | Objections forthcoming | |
| UO | Imstem CBIF Application | 3/14/2014 | IMSTEM-0024197 | IMSTEM-0024243 | | R, H, P | |
| UP | Article: Awe, et al. <i>Generation and characterization of transgene-free human induced pluripotent stem cells and conversion to putative clinical-grade status</i> | 2013 | IMSTEM-0025234 | IMSTEM-0025248 | | R, H, IO, P | |
| UQ | Article: Guo, et al. <i>Modeling Sjogren's syndrome with Id3 conditional knockout mice</i> | 9/10/2010 | IMSTEM-0025591 | IMSTEM-0025599 | | R, P, H, IO | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|-----------|----------------|----------------|----------------|------------------------|------------|
| UR | Article: Li, et al. <i>A T Cell Intrinsic Role of Id3 in Mouse Model for Primary Sjogren's Syndrom</i> | Oct-04 | IMSTEM-0025600 | IMSTEM-0025609 | | R, H, IO, P | |
| US | Article: Kimbrel et al <i>Mesenchymal Stem Cell Population Derived from Human Pluripotent Stem Cells Displays Potent Immunomodulatory and Therapeutic Properties</i> (pre-publication galley) | 3/29/2014 | IMSTEM-0026288 | IMSTEM-0026343 | | R, H, IO, P | |
| UT | Email from A. Lazorchak to X. Wang re Business Plan for New York summit 2014, with attached PowerPoint slides (email and PDF of native attachment, 21pp total) | 3/25/2014 | IMSTEM-0026344 | IMSTEM-0026345 | | Objections forthcoming | |
| UU | Email from Pachter to Xu and Wang re (no subject) | 6/9/2014 | IMSTEM-0027491 | IMSTEM-0027491 | | R, H, P | |
| UV | Article: Ge, et al. <i>The CCL2 synthesis inhibitor bindarit targets cells of the neurovascular unit and suppresses experimental autoimmune encephalomyelitis</i> | 2012 | IMSTEM-0027724 | IMSTEM-0027736 | | R, P, H, IO | |
| UW | Article: D'Souza, et al. <i>GSK3 Inhibition Promotes Efficient Myeloid and Lymphoid Hematopoiesis from Non-human Primate-Induced Pluripotent Stem Cells</i> | 2/9/2016 | IMSTEM-0027889 | IMSTEM-0027902 | | R, H, IO, P | |
| UX | Email from Wang to Xu re collaboration | 3/29/2014 | IMSTEM-0029820 | IMSTEM-0029821 | | R, H, P | |
| UY | Information Disclosure Statement and accompanying docs | 6/1/2016 | IMSTEM-0039591 | IMSTEM-0039614 | | R, H, P, A | |
| UZ | U.S. National Stage Application PCT/US2013/048291 (i.e., U.S. Patent Application 14/413,290) | 1/7/2015 | IMSTEM-0039650 | IMSTEM-0039807 | | P, H, A, IO | |
| VA | Email from katrinac@umac.mo to wicell2000@yahoo.com re (no subject) | 5/22/2014 | IMSTEM-0040319 | IMSTEM-0040323 | | R, H, P, IO | |
| VB | Email from Deng to wicell2000@yahoo.com re (no subject) | 5/21/2014 | IMSTEM-0040339 | IMSTEM-0040341 | | R, H, P, IO | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|-----------|----------------|----------------|----------------|------------------------|------------|
| VC | Email from wicell2000@yahoo.com to Deng re (no subject); attachment | 5/21/2014 | IMSTEM-0040342 | IMSTEM-0040347 | | R, H, P, IO | |
| VD | Email from Alfred Wang to WiCell <wicell2000@yahoo.com> transmitting of Business Proposal dated March 8, 2012 | 3/11/2012 | IMSTEM-0040454 | IMSTEM-0040472 | | Objections forthcoming | |
| VE | Business Proposal dated July 4, 2012 | 7/4/2012 | IMSTEM-0040492 | IMSTEM-0040506 | | Objections forthcoming | |
| VF | Imstem Business Proposal | 7/4/2012 | IMSTEM-0040492 | IMSTEM-0040506 | | H, LF, LK | |
| VG | Business Proposal dated March 8, 2012 | 3/8/2012 | IMSTEM-0040508 | IMSTEM-0040524 | | Objections forthcoming | |
| VH | Article: Barberi, et al. <i>Derivation of Multipotent Mesenchymal Precursors from Human Embryonic Stem Cells</i> | Jun-05 | IMSTEM-0042168 | IMSTEM-0042174 | | R, H, IO, P | |
| VI | Article: Hu, et al. <i>Neural differentiation of human induced pluripotent stem cells follows developmental principles but with variable potency</i> | 1/19/2010 | IMSTEM-0042603 | IMSTEM-0042608 | | R, H, IO, P | |
| VJ | Article: Feng, et al. <i>Hemangioblastic Derivatives from Human Induced Pluripotent Stem Cells Exhibit Limited Expansion and Early Senescence</i> | 2/4/2010 | IMSTEM-0042609 | IMSTEM-0042623 | | R, P, H, IO | |
| VK | Non-Final Office Action in connection with '551 Non-Provisional | 7/28/2016 | IMSTEM-0043278 | IMSTEM-0043288 | | R, H, P, A | |
| VL | Redacted email from Wang to Cheng | 6/20/2013 | IMSTEM-0043610 | IMSTEM-0043610 | | R, P, H, LF, LK, I | |
| VM | Patent Application Publication 2015/0203820 | 7/23/2015 | IMSTEM-0044926 | IMSTEM-0044993 | | R, H, P | |
| VN | Article: Meng, et al. <i>Synergistic Effect of Medium, Matrix, and Exogenous Factors on the Adhesion and Growth of Human Pluripotent Stem Cells Under Defined, Xeno-Free Conditions</i> | 2012 | IMSTEM-0045334 | IMSTEM-0045346 | | R, P, H, IO | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|----------------|----------------|----------------|-------------|------------|
| VO | Article: Blasi, et al. <i>Dermal fibroblasts display similar phenotypic and differentiation capacity to fat-derived mesenchymal stem cells, but differ in anti-inflammatory and angiogenic potential</i> | 2011 | IMSTEM-0046052 | IMSTEM-0046065 | | R, P, H, IO | |
| VP | Article: Bouffi, et al. <i>IL-6-Dependent PGE2 Secretion by Mesenchymal Stem Cells Inhibits Local Inflammation in Experiential Arthritis</i> | Dec-10 | IMSTEM-0046066 | IMSTEM-0046077 | | R, P, H, IO | |
| VQ | Article: Bowles, et al. <i>Mesenchymal Stem Cell-Based Therapy in a Mouse Model of Experimental Autoimmune Encephalomyelitis (EAE)</i> | 3/24/2015 | IMSTEM-0046078 | IMSTEM-0046096 | | R, H, P | |
| VR | Article: Denu, et al. <i>Fibroblasts and Mesenchymal Stromal/Stem Cells are Phenotypically Indistinguishable</i> | 5/18/2017 | IMSTEM-0046097 | IMSTEM-0046116 | | R, H, IO, P | |
| VS | Article: Drago, et al. <i>The stem cell secretome and its role in brain repair</i> | 12/1/2013 | IMSTEM-0046117 | IMSTEM-0046152 | | R, H, IO, P | |
| VT | Article: Efe, et al. <i>The evolving biology of small molecules: controlling cell fate and identify</i> | 2011 | IMSTEM-0046153 | IMSTEM-0046166 | | R, P, H, IO | |
| VU | Article: Ertा, et al. <i>Interleukin-6, a Major Cytokine in the Central Nervous System</i> | 10/25/2012 | IMSTEM-0046167 | IMSTEM-0046179 | | R, P, H, IO | |
| VV | Article: Ferreira, et al. <i>Mesenchymal Stromal Cell Secretome: Influencing Therapeutic Potential by Cellular Pre-conditioning</i> | Dec-18 | IMSTEM-0046180 | IMSTEM-0046196 | | R, H, IO, P | |
| VW | Article: Francois, et al. <i>Adoptive transfer of mesenchymal stromal cells accelerates intestinal epithelium recovery of irradiated mice in an interleukin-6-dependent manner</i> | 4/4/2012 | IMSTEM-0046197 | IMSTEM-0046203 | | R, P, H, IO | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|-----------|----------------|----------------|----------------|-------------|------------|
| VX | Article: Hass, et al. <i>Different populations and sources of human mesenchymal stem cells: A comparison of adult and neonatal tissue-derived MSC</i> | 2011 | IMSTEM-0046204 | IMSTEM-0046217 | | R, P, H, IO | |
| YY | Article: Halfon, et al. <i>Markers Distinguishing Mesenchymal Stem Cells from Fibroblasts are Downregulated with Passaging</i> | 11/1/2011 | IMSTEM-0046231 | IMSTEM-0046244 | | R, P, H, IO | |
| VZ | Article: Keating. <i>Mesenchymal Stromal Cells: New Directions</i> | 5/1/2012 | IMSTEM-0046253 | IMSTEM-0046260 | | R, P, H, IO | |
| WA | Article: Kurte, et al. <i>Intravenous Administration of Bone Marrow-Derived Mesenchymal Stem Cells Induces a Switch from Classical to Atypical Symptoms in Experimental Autoimmune Encephalomyelitis</i> | 1/23/2015 | IMSTEM-0046261 | IMSTEM-0046275 | | R, H, IO, P | |
| WB | Article: Lee, et al. <i>Proteomic Analysis of Tumor Necrosis Factor-Induced Secretome of Human Adipose Tissue-Derived Mesenchymal Stem Cells</i> | 10/6/2009 | IMSTEM-0046276 | IMSTEM-0046284 | | R, H, IO, P | |
| WC | Article: Lin, et al. <i>Commonly Used Mesenchymal Stem Cell Markers and Tracking Labels: Limitations and Challenges</i> | Sep-13 | IMSTEM-0046285 | IMSTEM-0046295 | | R, H, IO, P | |
| WD | Article: McKee, et al. <i>Advances and challenges in stem cell culture</i> | Jul-17 | IMSTEM-0046296 | IMSTEM-0046311 | | R, H, IO, P | |
| WE | Article: Payne, et al. <i>Distinct Immunomodulatory and Migratory Mechanisms Underpin the Therapeutic Potential of Human Mesenchymal Stem Cells in Autoimmune Demyelination</i> | 10/4/2012 | IMSTEM-0046312 | IMSTEM-0046328 | | R, P, H, IO | |
| WF | Article: Peng, et al. <i>Comparative Analysis of Mesenchymal Stem Cells from Bone Marrow, Cartilae, and Adipose Tissue</i> | 2008 | IMSTEM-0046329 | IMSTEM-0046347 | | R, H, IO, P | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|----------------|----------------|----------------|------------------------|------------|
| WG | Article: Pricola, et al. <i>Interleukin-6 Maintains Bone Marrow-Derived Mesenchymal Stem Cell Stemness by an ERK1/2-Dependent Mechanism</i> | 10/15/2009 | IMSTEM-0046348 | IMSTEM-0046371 | | R, H, IO, P | |
| WH | Article: Rombouts, et al. <i>Primary murine MSC show highly efficient homing to the bone marrow but lose homing ability following culture</i> | 2003 | IMSTEM-0046372 | IMSTEM-0046382 | | R, P, H, IO | |
| WI | Article: Ross, et al. <i>High and Low Dose Irradiation Have Opposing Effects on Cytokine Gene Expression in Human Glioblastoma Cell Lines</i> | 1997 | IMSTEM-0046383 | IMSTEM-0046391 | | R, P, H, IO | |
| WJ | Douglas Sipp, et al. Clear up This Stem-cell Mess. Nature https://www.nature.com/articles/d41586-018-06756-9 | 9/26/2018 | IMSTEM-0046392 | IMSTEM-0046394 | | H, IO | |
| WK | Article: Waterman, et al. <i>A New Mesenchymal Stem Cell Paradigm: Polarization into a Pro-Inflammatory MSC1 or an Immunosuppressive MSC2 Phenotype</i> | 4/26/2010 | IMSTEM-0046395 | IMSTEM-0046408 | | R, P, H, IO | |
| WL | Article: Zhang, et al. <i>Transplantation of Autologous Adipose Stem Cells Lacks Therapeutic Efficacy in the Experimental Autoimmune Encephalomyelitis Model</i> | Jan-14 | IMSTEM-0046409 | IMSTEM-0046419 | | R, H, IO, P | |
| WM | Article: Petkovic, et al. <i>The role of interleukin-6 in central nervous system demyelination</i> | Dec-16 | IMSTEM-0046420 | IMSTEM-0046421 | | R, H, IO, P | |
| WN | Bruce Alan Bunnell's Updated Curriculum Vitae | | IMSTEM-0046422 | IMSTEM-0046491 | | Objections forthcoming | |
| WO | [Intentionally left blank] | 6/24/2019 | N/A | | | W | |
| WP | 956 Non-Provisional (CIP of '321) | 5/30/2013 | N/A | | | H, A, LF, LK | |
| WQ | Amendment and Response to Restriction Requirement | 5/30/2013 | N/A | | | H, A, DE, LF, LK | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|--|------------|----------|----------|----------------|-----------------------|------------|
| WR | Article: "New Stem Cell Company Opens Lab at UConn Health Center," UConn Today https://today.uconn.edu/2013/02/new-stem-cell-company-opens-lab-at-uconn-health-center/ | 2/18/2013 | N/A | | | R, P, H, A, LF, LK, U | |
| WS | Article: "Stem cell grants target Multiple sclerosis, epilepsy, cancer" CT Mirror https://ctmirror.org/2013/06/13/stem-cell-grants-target-multiple-sclerosis-epilepsy-cancer/ | 6/13/2013 | N/A | | | R, P, H, A, LF, LK | |
| WT | Article: Constantinescu, et al. Experimental autoimmune encephalomyelitis (EAE) as a model for multiple sclerosis (MS) https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3229753/ | 10/1/2011 | N/A | | | R, P, H, IO | |
| WU | Article: Slukvin, et al., A Mesoderm-Derived Precursor for Mesenchymal Stem and Endothelial Cells | 12/3/2010 | N/A | | | R, P, H, IO, U | |
| WV | Astellas' Corporate Disclosure Statement | 11/13/2017 | N/A | | | R, P, H | |
| WW | Bone et al. J Cell Sci 124:1992–2000, 2011 A novel chemically directed route for the generation of definitive endoderm from human embryonic stem cells based on inhibition of GSK-3 | 1/1/2011 | N/A | | | R, P, H, IO | |
| WX | Cai L, et al. Cell Res 17:62–72, 2007 Promoting human embryonic stem cell renewal or differentiation by modulating Wnt signal and culture conditions Cai L, et al. Cell Res 17:62–72, 2007 (42) | 1/1/2007 | N/A | | | R, H, IO, P | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|-----------|----------|----------|----------------|-------------------------|------------|
| WY | Davidson, et al. Wnt/B-catenin signaling promotes differentiation, not self-renewal, of human embryonic stem cells and is repressed by Oct4 | 2/1/2012 | N/A | | | R, P, H, IO | |
| WZ | Dravid, et al. <i>Defining the Role of Wnt/B-Catenin Signaling in the Survival, Proliferation, and Self-Renewal of Human Embryonic Stem Cells</i> | 7/7/2005 | N/A | | | R, H, IO, P | |
| XA | Exclusive License Agreement between ACT and Embryome Sciences, Inc. | 7/10/2008 | N/A | | | R, P, LF, LK, H | |
| XB | Hasegawa et al. Stem Cells 24:2649–2660, 2006 A Method for the Selection of Human Embryonic Stem Cell Sublines with High Replating Efficiency After Single-Cell Dissociation | 1/1/2006 | N/A | | | R, H, IO, P | |
| XC | Imstem's Corporate Disclosure Statement | 12/6/2017 | N/A | | | R, P, H | |
| XD | Letter from B. Danek to T. Shannon | 7/15/2019 | N/A | | | BE, R, H, P, LA, LF, LK | |
| XE | Letter from B. Danek to T. Shannon | 7/18/2019 | N/A | | | BE, R, H, P, LA, LF, LK | |
| XF | Nakanishi M, et al. FASEB J 23:114–122, 2009 Directed induction of anterior and posterior primitive streak by Wnt from embryonic stem cells cultured in a chemically defined serum-free medium | 1/1/2009 | N/A | | | R, H, IO, P | |
| XG | Notice of Allowance and Fee(s) Due | 5/30/2013 | N/A | | | H, A, LF, LK | |
| XH | Plaintiffs' Privilege Log, Page 10 | 7/29/2019 | N/A | | | BE, R, H, P, LA, LF, LK | |
| XI | Plaintiffs' Response to Defendants' 30(b)(6) Notice | 8/7/2019 | N/A | | | BE, R, H, P, LA, LF, LK | |
| XJ | Plaintiffs' Response to Defendants' First Requests for Production | 1/16/2019 | N/A | | | BE, R, H, P, LA, LF, LK | |

| TRIAL EXHIBIT # | DESCRIPTION | DATE | BEGBATES | ENDBATES | Dep. Exhibit # | Plfs.' Ob. | Defs.' Obj |
|-----------------|---|------------|-------------|-------------|----------------|-----------------------------|------------|
| XK | Plaintiffs' Response to Defendants' Fourth Set of Interrogatories (29) | 10/15/2019 | N/A | | | BE, R, H, P, LA, LF, LK, IO | |
| XL | Plaintiffs' Response to Defendants' Second Requests for Production | 10/11/2019 | N/A | | | BE, R, H, P, LA, LF, LK | |
| XM | SCRMI's Corporate Disclosure Statement | 11/13/2017 | N/A | | | R, P, H | |
| XN | Sturgeon, et al. Wnt Signaling Controls the Specification of Definitive and Primitive Hematopoiesis From Human Pluripotent Stem Cells | 6/1/2014 | N/A | | | R, H, IO, P | |
| XO | Tan, et al. Efficient Derivation of Lateral Plate and Paraxial Mesoderm Subtypes from Human Embryonic Stem Cells Through GSKI-Mediated Differentiation | 1/1/2013 | N/A | | | R, P, H, IO | |
| XP | Ullmann, et al. GSK-3-specific inhibitor-supplemental hESC medium prevents the epithelial-mesenchymal transition process and the up-regulation of matrix metalloproteinases in hESCs cultured in feeder-free conditions | 2/7/2008 | N/A | | | R, H, IO, P | |
| XQ | Wang et al. Gastroenterology, 2013 Isolation and Characterization of Intestinal Stem Cells Based on Surface Marker Combinations and Colony-Formation Assay | 1/1/2013 | N/A | | | R, P, H, IO | |
| XR | Lab Meeting Slides (PDF of native doc, 9 pp) | 12/3/2009 | SCRMI001705 | SCRMI001705 | | R, P, LK, LF, H | |
| XS | SCRMI Mutual Non-Disclosure Agreement | 9/1/2009 | SCRMI005279 | SCRMI005288 | | R, P, LF, MD, H | |
| XT | Lab Meeting Minutes | 3/5/2010 | SCRMI008718 | SCRMI008718 | | R, P, H, LF, LK | |

Astellas' Reservation of Rights

Astellas reserves all rights to amend and update the trial exhibit list, to submit, as appropriate, additions and/or deletions to the above as the pretrial and trial process evolves, including meeting and conferring with Defendants on outstanding trial management issues and receiving the Court's rulings on any pending or later-filed motions, to remove entries that prove unnecessary, to rebut unanticipated evidence presented at trial by Defendants, and for any other permissible reason under the Federal Rules of Evidence, Federal Rules of Civil Procedure, and the Local Rules of the Court. Astellas may decide not to offer certain of the listed exhibits into evidence, and some of the exhibits are contingent on what Defendants offer into evidence. The inclusion of an exhibit on this list does not constitute an admission that the exhibit would be admissible if offered by Defendants. Astellas further reserves the right to offer into evidence any trial exhibit on this list offered by Defendants on their initial trial exhibit list or otherwise adduced at trial. Astellas also reserves the right to offer additional evidence on rebuttal and in response to any testimony, evidence, or argument offered by Defendants at trial.

ImStem's Reservation of Rights

Defendants reserve all rights to amend and update the trial exhibit list, to submit, as appropriate, additions and/or deletions to the above as the pretrial and trial process evolves, including meeting and conferring with Astellas on outstanding trial management issues and receiving the Court's rulings on any pending or later-filed motions, to remove entries that prove unnecessary, to rebut unanticipated evidence presented at trial by Astellas, and for any other permissible reason under the Federal Rules of Evidence, Federal Rules of Civil Procedure, and the Local Rules of the Court. Defendants may decide not to offer certain of the listed exhibits into evidence, and some of the exhibits are contingent on what Astellas offers into evidence. The inclusion of an exhibit on this list does not constitute an admission that the exhibit would be admissible if offered by Astellas. Defendants further reserve the right to offer into evidence any trial exhibit on this list offered by Astellas on their initial trial exhibit list or otherwise adduced at trial. Defendants also reserve the right to offer additional evidence on rebuttal and in response to any testimony, evidence, or argument offered by Astellas at trial.

KEY OF ASTELLAS' OBJECTIONS TO DEFENDANTS' EXHIBITS

| Description | Abbreviation | Objection |
|-----------------------|--------------|--|
| Attorney-Client | AC | Attorney-Client Privilege or Work Product (FRE 502) |
| Authenticity | A | The exhibit has not been properly authenticated for admission into evidence. (FRE 104, 901) |
| Best Evidence | BE | Best Evidence (FRE 1002-03) |
| Confidentiality | CO | The exhibit contains confidential business information but is not properly labeled pursuant to the Protective Order. |
| Description Error | DE | The descriptive title used for the proposed exhibit is inaccurate, misleading or incomplete. |
| Duplication | DU | The document is included on the exhibit list more than one time or contains other documents that are included on the exhibit list. |
| Foreign Language | FL | Foreign Language Document that does not include certified translation. |
| Hearsay | H | Hearsay (FRE 802) |
| Improper Opinion | IO | Proposed exhibit contains improper opinion testimony from a fact witness or improper expert opinion testimony (FRE 701 and 702). |
| Incomplete | I | The copy of the exhibit provided by Plaintiff is incomplete. (FRE 106) |
| Improper Summary | IS | The document does not accurately and/or properly summarize the content it purports to summarize (FRE 1006) |
| Limited Admissibility | LA | The document may be admissible against a party or for a purpose, but not against another party or for another purpose. (FRE 105) |

| Description | Abbreviation | Objection |
|---------------------|--------------|--|
| Lacks Foundation | LF | There is no foundation for the proposed exhibit or for testimony contained in the exhibit (FRE 104). |
| Lacks Knowledge | LK | Proposed exhibit contains material that is not within the personal knowledge of the witness (FRE 602). |
| Motion in Limine | MIL | Document is subject of Motion <i>in Limine</i> |
| Multiple Documents | MD | Proposed exhibit is actually multiple documents. |
| Not Proper Evidence | NP | The exhibit is not proper evidence. |
| Prejudice | P | Prejudice, Misleading, Confusion of Issues, Duplicative, and/or Cumulative (FRE 403) |
| Relevance | R | Relevance (FRE 402) |
| Untimely | U | The proposed exhibit was not timely produced or contains contentions, opinions, claim construction positions, facts and/or information that were not timely disclosed. |
| Wrong Document | W | The exhibit does not match the description, is the wrong document, or was not provided. |